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CALIFORNIA. DEPT. OF NATURAL RESOURCES. DIVISION OF MINES.

BULLETIN.
no.56

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MINERAL PRODUCTIONS, COUNTY MAPS AND MINING LAWS OF CALIFORNIA

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BULLETIN No. 56

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CALIFORNIA STATE MINING BUREAU . .

FERRY BUILDING
San Francisco, Cal.
under the direction of
LEWIS E. AUBURY
State Mineralogist

Printed at the State Printing Office, Sacramento
W. W. SHANNON, Superintendent . . .

BULLETIN No. 56.

Mineral Productions, County Maps

AND

Mining Laws of California

ISSUED BY THE

CALIFORNIA STATE MINING BUREAU, FERRY BUILDING, SAN FRANCISCO, CAL.

LEWIS E. AUBURY, - - State Mineralogist

1909

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CALIFORNIA MINES AND MINERALS.

Compiled from Original Records of the State Mining Bureau.

THE mining interests of the State of California are so diversified, and the industry is extended over so wide an area, that it is difficult to describe the conditions which exist without using many pages of printed matter. For this reason it has been considered proper, in this pamphlet, to give merely a record of results, which will show in plain figures what is being accomplished by the miners of the State. This record shows that some fifty mineral substances are being exploited, the annual valuation of which is now $66,363,198, and increasing as capital is invested and more mines and quarries are opened. The older mines, too, having been well developed and equipped, are increasing their annual output, and thus also proving their permanency and value with depth. For the past twenty-two years the total mineral output of California amounts to $674,536,640.

The climatic conditions are favorable to mining operations throughout the State, and means of transportation have been so improved as to greatly lessen costs of supplies, etc. There are abundant opportunities for the safe and profitable investment of capital in the various branches of the industry, as numerous claims which have been located have never been properly developed or equipped, their owners lacking the necessary means.

The State Mining Bureau, maintained by State aid, provides numerous publications in the form of bulletins or reports, giving in detail the conditions existing in gold, copper, quicksilver, petroleum, and all the various branches of mining. It also publishes maps of the counties which show the location of all mines, roads, streams, etc. The Bureau is in charge of a State Mineralogist, who has a corps of trained Field Assistants, and an office force as well. There is a fine technical library, and a very large museum showing specimens of all mineral products, suitably arranged for reference. There is also a well-equipped laboratory for the determination of minerals.

The Bureau publishes, among other things, an annual Statistical Bulletin showing by counties the output and value of all substances mined or quarried in California. From the latest bulletin of this character, covering the calendar year 1908, figures and tables given in this pamphlet are taken, in the belief that they will give the best idea of what the mines of the State are producing and what the miners are accomplishing.

FERRY BUILDING, SAN FRANCISCO, ONE HALF THE UPPER FLOOR OF WHICH IS OCCUPIED BY THE STATE MINING BUREAU.

(This building is constructed of Colusa sandstone, and the reconstructed tower is of reinforced concrete.)

CALIFORNIA STATE MINING BUREAU.

This institution aims to be the chief source of reliable information about the mineral resources and mining industries of California.

It is encouraged in its work by the fact that its publications have been in such demand that large editions are soon exhausted. In fact, copies of them now command high prices in the market.

The publications, as soon as issued, find their way to the scientific, public, and private libraries of all countries.

STATE MINERALOGIST.

The California State Mining Bureau is under the supervision of a State Mineralogist and Board of Trustees.

It is supported by legislative appropriations, and in some degree performs work similar to that of the geological surveys of other states, but its purposes and functions are mainly practical, the scientific work being clearly subordinate to the economic phases of the mineral field, as shown by the organic law governing the Bureau, which is as follows:

SEC. 4. It shall be the duty of said State Mineralogist to make, facilitate, and encourage special studies of the mineral resources and mineral industries of the State. It shall be his duty: To collect statistics concerning the occurrence of the economically important minerals and the methods pursued in making their valuable constituents available for commercial use; to make a collection of typical geological and mineralogical specimens, especially those of economic or commercial importance, such collection constituting the Museum of the State Mining Bureau; to provide a library of books, reports, drawings, bearing upon the mineral industries, the sciences of mineralogy and geology and the arts of mining and metallurgy, such library constituting the Library of the State Mining Bureau; to make a collection of models, drawings, and descriptions of the mechanical appliances used in mining and metallurgical processes; to preserve and so maintain such collections and library as to make them available for reference and examination, and open to public inspection at reasonable hours; to maintain, in effect, a bureau of information concerning the mineral industries of this State, to consist of such collections and library, and to arrange, classify, catalogue, and index the data therein contained, in a manner to make the information available to those desiring it, and to provide a custodian specially qualified to promote this purpose; to make a biennial report to the Board of Trustees of the Mining Bureau, setting forth the important results of his work, and to issue from time to time such bulletins as he may deem advisable concerning the statistics and technology of the mineral industries of this State.

THE BULLETINS.

The field covered by the books issued under this title is shown in the list of publications. Each bulletin deals with only one phase of mining. Many of them are elaborately illustrated with engravings and maps. Only a nominal price is asked, in order that those who need them most may obtain a copy. (See list on last page.)

THE REGISTERS OF MINES.

The Registers of Mines form practically both a State and a County directory of the mines of California, each county being represented in a separate pamphlet. Those who wish to learn the essential facts about any particular mine are referred to them. The facts and figures are given in tabular form, and are accompanied by a topographical map of the county on a large scale, showing location of each mineral deposit, towns, railroads, roads, power lines, ditches, etc.

HOME OF THE BUREAU.

The Mining Bureau occupies the north half of the third floor of the Ferry Building, in San Francisco. On the same floor are the rooms of the California State Board of Trade, and an exhibition instituted by and maintained by the Board of Trade, illustrative of agriculture, horticulture, viticulture, and other industries of California. All visitors and residents are invited to inspect the Museum, Library, and other rooms of the Bureau and gain a personal knowledge of its operations.

THE MUSEUM.

The Museum now contains over 20,000 specimens, carefully labeled and attractively arranged in showcases in a great, well-lighted hall, where they can be easily studied. The collection of ores from California mines is of course very extensive, and is supplemented by many cases of characteristic ores from the principal mining districts of the world. The educational value of the exhibit is constantly increased by substituting the best specimens obtainable for those of less value.

These mineral collections are not only interesting, beautiful, and in every way attractive to the sightseers of all classes, but are also educational. They show to manufacturers, miners, capitalists, and others the character and quality of

MINERAL MUSEUM, CALIFORNIA STATE MINING BUREAU.

the economic minerals of the State, and where they are found. Plans have been formulated to extend the usefulness of the exhibit by special collections, such as one showing the chemical composition of minerals; another showing the mineralogical composition of the sedimentary, metamorphic, and igneous rocks of the State; the petroleum-bearing formations, ore bodies, and their country rocks, etc.

Besides the mineral specimens, there are many models, maps, photographs, and diagrams illustrating the modern practice of mining, milling, and concentrating, and the technology of the mineral industries. An educational series of specimens for high schools has been inaugurated, and new plans are being formulated that will make the Museum even more useful in the future than in the past. Its popularity is shown by the fact that over 120,000 visitors registered last year, while many failed to leave any record of their visit.

THE LIBRARY.

This is the mining reference library of the State, constantly consulted by mining men, and contains about 5,000 volumes of selected works, in addition to the numerous publications of the Bureau itself. On its shelves will be found reports on geology, mineralogy, mining, etc., published by states, governments, and individuals; the reports of scientific societies at home and abroad; encyclopædias, scientific papers, and magazines; mining publications, and the current literature of mining ever needed in a reference library.

Manufacturers' catalogues of mining and milling machinery by California firms are kept on file. The Registers of Mines form an up-to-date directory for investor and manufacturer.

The Librarian's desk is the general bureau of information, where visitors from all parts of the world are ever seeking information about all parts of California.

READING-ROOM.

This is a part of the Library Department and is supplied with over one hundred current publications. Visitors will find here various California papers and leading mining journals from all over the world.

The Library and Reading-Room are open to the public from 9 A. M. to 5 P. M. daily, except Sundays and holidays.

THE LABORATORY.

This department identifies for the prospector the minerals he finds, and tells him the nature of the wall rocks or dikes he may encounter in his workings; but this department *does not* do assaying nor compete with private assayers. The presence of minerals is determined, but not the percentage present. No charges for this service are made to any resident of the State. Many of the inquiries made of this department have brought capital to the development of new districts. Many technical questions have been asked and answered as to the best chemical and mechanical processes of handling ores and raw material. The laboratory is well equipped.

THE DRAUGHTING-ROOM.

In this room are prepared scores of maps, from the small ones filling only a part of a page, to the largest County and State maps; and the numerous illustrations, other than photographs, that are constantly being required for the Bulletins and Registers of Mines. In this room, also, will be found a very complete collection of maps of all kinds relating to the industries of the State, and one of the important duties of the department is to make such additions and corrections as will keep the maps up to date. The seeker after information inquires here if he wishes to know about the geology or topography of any district; about the locations of the new camps, or positions of old or abandoned ones; about railroads, stage roads, and trails; or about the working drawings of anything connected with mining.

MINERAL STATISTICS.

One of the features of this institution is its mineral statistics. Their annual compilation by the State Mining Bureau began in 1894. No other state in the Union attempts so elaborate a record, expends so much labor and money on its compilation, or secures so accurate a one.

The State Mining Bureau keeps a careful, up-to-date, and reliable but confidential register of every producing mine, mine-owner, and mineral industry in the State. From such are secured, under pledge of secrecy, reports of output, etc., and all other available sources of information are used in checking, verifying, and supplementing the information so gained. This information is published in an annual tabulated, statistical, single-sheet bulletin, showing the mineral production by both substances and counties.

TOTAL MINERAL PRODUCT OF CALIFORNIA FOR 1908.

The following table shows the yield of mineral substances of California for 1908, as per returns received at the State Mining Bureau, San Francisco, in answer to inquiries sent to producers:

	Quantity.		Value.
Asbestos	70	tons	$6,100
Asphalt	105,443	tons	1,082,376
Bituminous Rock	30,718	tons	109,818
Borax	44,400,000	lbs.	117,000
Cement	1,629,615	bbls.	2,359,692
Chrome	350	tons	6,195
Clay (Brick)	332,872	M	2,506,495
Clay (Pottery)	208,042	tons	325,147
Coal	18,496	tons	55,503
Copper	40,868,772	lbs.	5,350,777
Fuller's Earth	50	tons	1,000
Gems	.....		208,950
Gold*	.....		18,761,559
Granite	483,374	cu. ft.	512,923
Gypsum	34,600	tons	155,400
Infusorial Earth	2,950	tons	32,012
Lead	562	tons	46,663
Lime	396,386	bbls.	379,243
Limestone	273,890	tons	297,264
Macadam	2,939,901	tons	2,446,768
Magnesite	10,582	tons	80,822
Manganese	321	tons	5,785
Marble	18,653	cu. ft.	$47,665
Mineral Paint	335	tons	2,250
Mineral Water	2,789,715	gals.	560,507
Natural Gas	842,883	M cu. ft.	474,584
Paving Blocks	7,660	M	334,780
Petroleum	48,306,910	bbls.	26,566,181
Platinum*	706	ounces	13,414
Pyrites	107,081	tons	610,335
Quartz Crystals	4,000	lbs.	10,000
Quicksilver	18,039	flasks	763,520
Rubble	1,059,044	tons	795,006
Salt	121,764	tons	281,469
Sand (Glass)	9,255	tons	22,045
Sandstone	93,301	cu. ft.	55,151
Silver* (com'l value)	.....		873,057
Slate	6,000	squares	50,000
Soda	9,600	tons	14,400
Soapstone	3	tons	48
Tungsten	.....		37,750
Zinc	.....		3,544
Total			$66,363,198

* Figures supplied by U. S. Geological Survey.

In 1907 the total product was valued at $55,697,949. The increase for 1908 is $10,665,249.

The most noteworthy increases for 1908 are in petroleum, gold, bituminous rock, macadam, and pottery clays.

The total value of the metallic substances (including precious metals) for 1908, was $26,466,814, which includes gold, silver, pyrites, quicksilver, copper, lead, tungsten, platinum, zinc, and chrome. The silver is given in commercial value, or amount received for it by the producers.

The total value of non-metallic substances was $1,531,198. These substances include borax, coal, mineral waters, salt, infusorial earth, gypsum, magnesite, manganese, mineral paint, fuller's earth, soda, tourmaline, chrysoprase and other gems.

The total value of the hydrocarbons and gases was $28,232,959, an increase of $10,203,022. The hydrocarbons and gases include asphalt, bituminous rock, natural gas, and petroleum. The petroleum price is the average f.o.b. at wells or stations in each county. The number of barrels of oil produced was 48,306,910, valued at $26,566,181, as against 40,311,171 barrels in 1907, valued at $16,783,943. The increase in asphalt was large for the year.

The total value of structural materials was $10,132,179, a decrease from 1907. These materials include brick and pottery clays, Portland cement, lime and limestone, macadam, rubble and concrete rock, paving blocks, marble, granite, sandstone, serpentine, slate and glass-sand.

The relative values of the principal minerals of the State are as follows: First, petroleum; second, gold; third, copper; fourth, clays and their products; fifth, macadam; sixth, cement; seventh, asphaltum.

All the asbestos produced in California in 1908 was from Amador, Placer, and Riverside counties.

Asphaltum was produced in the counties of Kern, Los Angeles, Santa Barbara, Alameda, Contra Costa, and San Francisco. It was almost entirely derived from the refining of petroleum.

Bituminous rock was quarried in San Luis Obispo, San Benito, and Santa Cruz counties.

Borax was produced in Inyo and Ventura counties.

Brick clays were utilized in the counties of Alameda, Contra Costa, Fresno, Humboldt, Imperial, Kern, Kings, Los Angeles, Marin, Madera, Mendocino, Merced, Orange, Riverside, Sacramento, San Bernardino, San Diego, San Francisco, San Joaquin, San Luis Obispo, San Mateo, Santa Barbara, Santa Clara, Shasta, Solano, Sonoma, Tehama, Tulare, Amador, Monterey, Placer, Stanislaus, Yuba, and Ventura.

Clay for pottery came from Alameda, Amador, Calaveras, Los Angeles, Placer, Riverside, Contra Costa, Fresno, Orange, Santa Cruz, San Joaquin, Solano, and Ventura.

Chrome was mined in Shasta and Alameda counties.

Coal was produced in Amador, Contra Costa, Riverside, and Monterey counties.

Copper was produced in the counties of Amador, Calaveras, El Dorado, Inyo, Madera, Nevada, Placer, Riverside, San Bernardino, Siskiyou, Lassen, Mariposa, Imperial, Merced, Del Norte, Orange, and Shasta.

All the fuller's earth came from Kings County.

Glass-sand was produced in Alameda, Los Angeles, and Monterey counties.

Gold was mined in thirty-one counties.

Granite was quarried for building purposes, etc., in the counties of Madera, Nevada, Placer, Riverside, Sacramento, San Bernardino, San Diego, Fresno, Humboldt, Sonoma, and Santa Cruz.

Gypsum was derived from Kern, Kings, Monterey, San Bernardino, and Los Angeles counties.

Lead from Inyo, Orange, Madera, Mariposa, San Diego, Siskiyou, Riverside, and San Bernardino counties.

Infusorial earth came from Santa Barbara County.

Lime was quarried and burned in the counties of Amador, El Dorado, Kern, Monterey, Placer, Riverside, Siskiyou, Santa Clara, Santa Cruz, Shasta, and Tuolumne.

Limestone was quarried for beet sugar factories, fluxes, paving, etc., in Amador, Contra Costa, Calaveras, San Bernardino, Santa Barbara, Santa Clara, Santa Cruz, Shasta, Riverside, San Mateo, and Tuolumne.

Marble was quarried in San Bernardino and Tuolumne counties.

Macadam quarries were operated and sand and gravel deposits worked in the counties of Alameda, Colusa, Contra Costa, Los Angeles, Riverside, Sacramento, San Benito, San Bernardino, San Francisco, San Mateo, Santa Cruz, Solano, Butte, El Dorado, Humboldt, Lake, Mariposa, Monterey, Napa, Nevada, Orange, Sutter, Shasta, Santa Clara, San Diego, Ventura, Yuba, and Sonoma.

Mineral paint came from Stanislaus and Calaveras counties.

Manganese came from Plumas, Alameda, and San Joaquin counties.

Magnesite was mined in Alameda, Riverside, Sonoma, and Tulare counties.

Mineral waters were bottled and sold from springs in the counties of Butte, Colusa, Lake, Los Angeles, Mendocino, Napa, San Benito, Santa Barbara, Santa Clara, San Luis Obispo, San Diego, Shasta, Siskiyou, Solano, Sonoma, Tehama, Contra Costa, Marin, and Mono.

Natural gas was commercially utilized in Sacramento, San Joaquin, Santa Barbara, Solano, and Ventura counties.

Paving blocks were quarried and made in Riverside, San Bernardino, Solano, El Dorado, and Sonoma counties.

Petroleum was derived from the counties of Fresno, Kern, Los Angeles, Orange, Santa Barbara, Santa Clara, San Luis Obispo, and Ventura.

Silver was produced in thirty-one counties.

Platinum was found in the following counties: Butte, Humboldt, Siskiyou, Trinity, Calaveras, Sacramento, and Del Norte.

Alameda and Shasta counties furnished all the output of pyrites.

Quicksilver was produced in Colusa, Lake, Napa, San Benito, San Luis Obispo, Santa Clara, Solano, Monterey, Sonoma, and Trinity counties.

Rubble was quarried in the counties of Los Angeles, Marin, Napa, Placer, Riverside, San Bernardino, San Diego, Santa Barbara, Solano, San Francisco, Contra Costa, Mariposa, Nevada, Madera, San Luis Obispo, Stanislaus, Sonoma, Ventura, and Sacramento.

Salt came from Alameda, Colusa, Los Angeles, San Diego, Solano, Tehama, San Bernardino, and San Mateo.

Sandstone was quarried in Colusa, Los Angeles, Santa Barbara, Yolo, and Siskiyou counties.

Slate came from El Dorado County.

The gems (including hyacinth, beryl, benitoite, topaz, kunzite, tourmaline and chrysoprase) came from the counties of Los Angeles, San Benito, San Bernardino, San Diego, and Tulare.

TOTAL GOLD PRODUCT OF CALIFORNIA—1848-1908.

While gold is next to the leading mining product, its yield no longer puts the greatest gold-producing county in the first place. The copper of Shasta County, together with its other mineral products, gives it the leading place as a mineral-producing county. Gold is more widely distributed than any other substance thus far mined in California, thirty-one counties out of the fifty-eight in the State showing a gold yield in 1908, and it is known to exist in several others.

The following table shows the total gold yield of California, by years, from the time mining commenced in 1848 to 1908, inclusive:*

1848	$245,301	1864	$24,071,423	1880	$20,030,761	1896	$17,181,562
1849	10,151,360	1865	17,930,858	1881	19,223,155	1897	15,871,401
1850	41,273,106	1866	17,123,867	1882	17,146,416	1898	15,906,478
1851	75,938,232	1867	18,265,452	1883	24,316,873	1899	15,336,031
1852	**81,294,700**	1868	17,555,867	1884	13,600,000	1900	15,863,355
1853	67,613,487	1869	18,229,044	1885	12,661,044	1901	16,989,044
1854	69,433,931	1870	17,458,133	1886	14,716,506	1902	16,910,320
1855	55,485,395	1871	17,477,885	1887	13,588,614	1903	16,471,264
1856	57,509,411	1872	15,482,194	1888	12,750,000	1904	19,109,600
1857	43,628,172	1873	15,019,210	1889	11,212,913	1905	19,197,043
1858	46,591,140	1874	17,264,836	1890	12,309,793	1906	18,732,452
1859	45,846,599	1875	16,876,009	1891	12,728,869	1907	16,727,928
1860	44,095,163	1876	15,610,723	1892	12,571,900	1908	18,761,559
1861	41,884,995	1877	16,501,268	1893	12,422,811		
1862	38,854,668	1878	18,839,141	1894	13,923,281	Total	$1,488,275,250
1863	23,501,736	1879	19,626,654	1895	15,334,317		

* Figures for 1906, 1907, and 1908 by U. S. Geological Survey.

BANNER COUNTIES IN DIFFERENT MINERAL PRODUCTS—1908.

As far as the "banner" counties in the different mineral products are concerned, the following is the record for 1908, with the value of the material in which the county leads. It should be explained, however, that certain substances are put under the heading of "unapportioned," which includes product of single mines, etc., in counties to conceal their identity. For this reason it is necessary to put under this heading borax, coal, Portland cement, some gold and silver, and a few other substances formerly credited to certain counties. This causes an apparent, but not real, falling off in output of counties where "unapportioned" substances occur. If credited to the exact county where there is only a single operator, private business would be made public. Under these circumstances, the figures of output of value in some counties do not actually represent their relative rank in 1908, as some of the products may be placed under "unapportioned." Moreover, some counties lead in output of some substances placed in the "unapportioned" column, and these substances do not, therefore, appear after the name of the county, thus reducing the county total.

Alameda County leads in manganese ($4,680) and salt ($108,694); Butte in gold ($3,139,398); Colusa in sandstone ($43,971); El Dorado in slate ($50,000); Inyo in lead ($28,244), soda, and borax; Kern in petroleum ($9,388,935), asphalt ($475,000), and tungsten; Lake in mineral waters ($118,300); Los Angeles in brick ($800,163), gypsum ($75,000), macadam ($542,078), and glass-sand ($16,000); Placer in asbestos ($5,000) and granite ($157,992); Riverside in pottery clays ($89,752); San Benito in quicksilver ($405,792); San Diego in gems ($121,500); Monterey in coal; Santa Cruz in bituminous rock ($85,123) and lime ($119,996); Santa Barbara in infusorial earth ($32,012) and natural gas ($357,806); Shasta in copper ($4,642,976), in chrome ($5,600), pyrites ($539,553), and silver ($517,596); Sonoma in paving blocks ($228,630); Stanislaus in mineral paint ($2,000); Tuolumne in marble ($47,165); Tulare County leads in magnesite ($52,642); Solano County in cement; Kings County in fuller's earth; San Bernardino County in limestone ($97,466); Calaveras County in quartz crystals; Contra Costa County in rubble ($210,000). The "unapportioned" list includes borax, cement, coal, tungsten, and some gold, silver, copper, lead, glass-sand, and zinc.

To show the wide distribution of mineral substances in California, an analysis of the statistics for 1908 proves that gold was produced in 31 counties; asphalt in 7; chrome in 2; brick clays in 34; pottery clays in 13; copper in 17; gems in 5; granite in 11; macadam in 28; mineral waters in 19; natural gas in 5; paving blocks in 5; petroleum in 8; quicksilver in 10; rubble in 19; salt in 8; sandstone in 5, and silver in 31. In certain instances other substances are mined or quarried in only one county.

QUANTITY AND VALUE OF MINERAL PRODUCTS OF CALIFORNIA—1908.

ASBESTOS.	QUANTITY.	VALUE.
Amador County	10 tons	$1,000
Placer County	50 tons	5,000
Riverside County	10 tons	1,000
Totals	70 tons	$7,000
ASPHALT.		
Alameda County	11,943 tons	$143,376
Contra Costa County.	9,500 tons	123,500
Fresno County	500 tons	5,500
Kern County	50,000 tons	475,000
Los Angeles County..	25,000 tons	250,000
San Francisco Co.	1,500 tons	15,000
Santa Barbara Co.	7,000 tons	70,000
Totals	105,443 tons	$1,082,376
BITUMINOUS ROCK.		
San Benito Co.	600 tons	$2,820
San Luis Obispo Co.	5,077 tons	21,875
Santa Cruz County.	25,041 tons	85,123
Totals	30,718 tons	$109,818
BORAX.		
Unapportioned	22,200 tons	$117,000
CEMENT.		
Unapportioned	1,629,615 bbls.	$2,359,692

CHROME.	QUANTITY.	VALUE.
Alameda County	70 tons	$595
Shasta County	280 tons	5,600
Totals	350 tons	$6,195
CLAYS—BRICK.		
(Includes Common, Pressed, and Fire.)		
Alameda County	1,800 M	$10,800
Amador County	2,109 M	61,600
Contra Costa County.	55,844 M	335,737
Fresno County	13,220 M	106,960
Humboldt County	760 M	8,585
Imperial County	2,225 M	22,250
Kern County	2,080 M	19,552
Kings County	3,000 M	24,000
Los Angeles County..	108,414 M	800,163
Madera County	250 M	2,250
Marin County	10,000 M	50,000
Mendocino County	260 M	2,600
Merced County	700 M	6,300
Monterey County	426 M	3,838
Orange County	4,050 M	20,450
Placer County	1,300 M	46,300
Riverside County	4,803 M	74,086
Sacramento County	7,936 M	63,491
San Bernardino Co.	1,050 M	7,350
San Diego County	2,112 M	16,719

QUANTITY AND VALUE OF MINERAL PRODUCTS OF CALIFORNIA—1908.

CLAYS—BRICK—Continued.	QUANTITY.	VALUE.
San Francisco Co.....	41,837 M	$345,155
San Joaquin County..	28,412 M	189,560
San Luis Obispo Co...	1,440 M	12,900
San Mateo County....	4,494 M	63,231
Santa Barbara Co.....	750 M	7,500
Santa Clara County..	15,000 M	63,618
Shasta County	2,000 M	12,000
Solano County	1,000 M	7,000
Sonoma County	11,000 M	83,000
Stanislaus County ...	750 M	7,000
Tehama County	400 M	3,000
Tulare County	2,250 M	18,000
Ventura County	200 M	1,500
Yuba County	1,000 M	10,000
Totals.....	332,872 M	$2,506,495
CLAYS—POTTERY.		
Alameda County	16,370 tons	$44,822
Amador County	23,322 tons	25,369
Calaveras County ...	25 tons	250
Contra Costa County.	6,000 tons	7,500
Fresno County	9,000 tons	26,000
Los Angeles County..	25,934 tons	55,274
Orange County	9,000 tons	18,600
Placer County	13,000 tons	11,500
Riverside County	71,231 tons	89,752
Sonoma County	2,600 tons	$3,000
San Joaquin County..	2,600 tons	13,000
Santa Cruz County...	28,400 tons	28,400
Ventura County	560 tons	1,680
Totals.....	208,042 tons	$325,147
COAL.		
Unapportioned	18,496 tons	$55,503
COPPER.		
Amador County	53,940 lbs.	$3,440
Calaveras County ...	4,804,446 lbs.	555,704
Del Norte County	74,787 lbs.	9,984
El Dorado County...	603 lbs.	83
Imperial County	374 lbs.	51
Inyo County	6,820 lbs.	938
Madera County	113,293 lbs.	15,454
Mariposa County	29,124 lbs.	2,958
Merced County	694 lbs.	70
Nevada County	30,166 lbs.	4,104
Riverside County	22,665 lbs.	2,816
San Bernardino Co...	516,940 lbs.	71,079
Shasta County .....34,878,677 lbs.		4,642,976
Unapportioned	336,243 lbs.	41,120
Totals.....40,868,772 lbs.		$5,350,777

QUANTITY AND VALUE OF MINERAL PRODUCTS OF CALIFORNIA—1908.

FULLER'S EARTH.	QUANTITY.	VALUE.
Kings County	50 tons	$1,000
GEMS.		
Los Angeles County		$8,500
San Benito County		16,500
San Bernardino County		200
San Diego County		121,500
Tulare County		62,250
Total		$208,950
GLASS-SAND.		
Alameda County	250 tons	$625
Los Angeles County	2,000 tons	16,000
Monterey County	6,805 tons	5,120
Unapportioned	200 tons	300
Totals	9,255 tons	$22,045
GOLD.		
Amador County		$1,876,174
Butte County		3,139,398
Calaveras County		1,378,511
Colusa County		578
Del Norte County		3,488
El Dorado County		342,033
Fresno County		1,054
Humboldt County		33,066

GOLD—Continued.	VALUE
Imperial County	$5,848
Inyo County	308,873
Kern County	827,087
Lassen County	7,284
Madera County	45,107
Mariposa County	439,862
Mereed County*	182,970
Mono County	413,946
Monterey County	1,318
Nevada County	2,297,963
Placer County	358,096
Plumas County	254,737
Riverside County	5,884
Saeramento County	1,166,055
San Bernardino County	180,511
San Diego County	6,920
Shasta County	1,131,832
Sierra County	412,626
Siskiyou County	504,156
Stanislaus County*	.....
Trinity County	602,944
Tuolumne County	798,752
Yuba County	2,034,486
Total	$18,761,559

* U. S. Geological Survey places gold for Stanislaus with that for Merced County.

QUANTITY AND VALUE OF MINERAL PRODUCTS OF CALIFORNIA—1908.

GRANITE.	QUANTITY.	VALUE.
Fresno County	16,900 cu. ft.	$16,900
Humboldt County	1,280 cu. ft.	1,280
Madera County	140,086 cu. ft.	123,668
Nevada County	700 cu. ft.	2,100
Placer County	109,293 cu. ft.	157,992
Riverside County	156,100 cu. ft.	151,901
Sacramento County	44,151 cu. ft.	44,151
San Bernardino Co.	4,848 cu. ft.	4,029
San Diego County	9,000 cu. ft.	10,000
Sonoma County	566 cu. ft.	566
Santa Cruz County	450 cu. ft.	336
Totals	483,374 cu. ft.	$512,923

GYPSUM.		
Kern County	500 tons	$2,000
Kings County	100 tons	400
Los Angeles County	12,000 tons	75,000
Monterey County	2,000 tons	8,000
San Bernardino Co.	20,000 tons	70,000
Totals	34,600 tons	$155,400

INFUSORIAL EARTH.		
Santa Barbara Co.	2,950 tons	$32,012

LEAD.	QUANTITY.	VALUE.
Amador County	1,072 lbs.	$40
Inyo County	683,401 lbs.	28,244
Madera County	2,279 lbs.	84
Merced County	965 lbs.	36
Nevada County	663 lbs.	25
Orange County	14,445 lbs.	534
San Bernardino Co.	409,570 lbs.	17,218
Siskiyou County	4,949 lbs.	183
Unapportioned	7,139 lbs.	299
Totals	1,124,483 lbs.	$46,663

LIME.		
Amador County	800 bbls.	$960
El Dorado County	15,921 bbls.	20,192
Kern County	116,717 bbls.	87,788
Monterey County	50,000 bbls.	50,000
Placer County	1,727 bbls.	1,710
Riverside County	8,300 bbls.	8,300
Santa Clara County	10,017 bbls.	10,017
Santa Cruz County	119,996 bbls.	119,996
Shasta County	11,818 bbls.	9,100
Siskiyou County	1,090 bbls.	1,680
Tuolumne County	60,000 bbls.	69,500
Totals	396,386 bbls.	$379,243

QUANTITY AND VALUE OF MINERAL PRODUCTS OF CALIFORNIA—1908.

LIMESTONE.	QUANTITY.	VALUE.
Amador County	1,000 tons	$1,375
Calaveras County	14,165 tons	31,446
Contra Costa County.	9,140 tons	18,282
Riverside County	8,000 tons	8,000
San Mateo County....	37,687 tons	17,451
San Bernardino Co...	104,236 tons	97,466
Santa Barbara County	16,580 tons	33,160
Santa Clara County..	671 tons	1,417
Santa Cruz County...	1,178 ons	2,167
Shasta County	80,000 tons	80,000
Tuolumne County ...	1,233 tons	6,500
Totals.....	273,890 tons	$297,264

MACADAM.		
Alameda County	483,492 tons	$465,653
Butte County	18,176 tons	7,916
Colusa County	1,000 tons	850
Contra Costa County.	43,853 tons	26,047
El Dorado County....	2,000 tons	1,600
Humboldt County ...	11,622 tons	13,074
Lake County	8,210 tons	10,000
Los Angeles County..	685,790 tons	542,078
Mariposa County	15,000 tons	9,000
Monterey County	92,420 tons	31,727
Napa County	101,078 tons	75,395
Nevada County	3,623 tons	1,387

MACADAM—Continued.	QUANTITY.	VALUE.
Orange County	16,055 tons	$3,005
Riverside County	347,517 tons	25,625
Sacramento County ..	211,622 tons	147,649
San Benito County...	116,000 tons	60,400
San Bernardino Co...	191,445 tons	176,696
San Diego County....	29,020 tons	34,583
San Francisco Co.....	53,763 tons	41,111
San Mateo County...	92,264 tons	89,142
Santa Cruz County...	18,284 tons	19,736
Solano County	232,791 tons	518,883
Sonoma County	63,380 tons	57,919
Sutter County	5,000 tons	5,000
Santa Clara County..	51,996 tons	45,142
Shasta County	10,000 tons	25,000
Ventura County	17,500 tons	6,400
Yuba County	17,000 tons	5,750
Totals.....	2,939,901 tons	$2,446,768

MAGNESITE.		
Alameda County	2,000 tons	$24,000
Riverside County	2,000 tons	4,000
Sonoma County	15 tons	180
Tulare County	6,567 tons	52,642
Totals.....	10,582 tons	$80,822

QUANTITY AND VALUE OF MINERAL PRODUCTS OF CALIFORNIA—1908.

MANGANESE.	QUANTITY.	VALUE.
Alameda County	260 tons	$4,680
Plumas County	1 ton	25
San Joaquin County..	60 tons	1,080
Totals.....	321 tons	$5,785

MARBLE.		
San Bernardino Co...	150 cu. ft.	$500
Tuolumne County ...	18,503 cu. ft.	47,165
Totals.....	18,653 cu. ft.	$47,665

MINERAL WATER.		
Butte County	22,450 gals.	$2,450
Colusa County	200,000 gals.	8,000
Contra Costa County.	109,400 gals.	5,470
Lake County	246,545 gals.	118,300
Los Angeles County..	573,975 gals.	42,857
Marin County	52,000 gals.	12,050
Mono County	7,100 gals.	5,575
Mendocino County ...	45,000 gals.	9,800
Napa County	145,500 gals.	101,090
San Benito County...	26,000 gals.	2,600
San Diego County....	9,810 gals.	11,772
San Luis Obispo Co...	4,800 gals.	1,056
Santa Barbara County	5,500 gals.	4,932
Santa Clara County..	371,635 gals.	39,955

MINERAL WATER—Continued.	QUANTITY.	VALUE.
Shasta County	100,000 gals.	20,000
Siskiyou County	700,000 gals.	80,000
Solano County	140,000 gals.	11,600
Sonoma County	10,000 gals.	1,000
Tehama County	20,000 gals.	2,000
Totals.....	2,789,715 gals.	$560,507

MINERAL PAINT.		
Calaveras County	50 tons	$250
Stanislaus County ...	285 tons	2,000
Totals.....	335 tons	$2,250

NATURAL GAS.		
Sacramento County ..	55,000 M cu. ft.	$55,000
San Joaquin County..	60,903 M cu. ft.	49,194
Santa Barbara County	715,612 M cu. ft.	357,806
Solano County	7,743 M cu. ft.	8,053
Ventura County	3,625 M cu. ft.	4,531
Totals.....	842,883 M cu. ft.	$474,584

PAVING BLOCKS.		
El Dorado County...	200 M	$8,000
Riverside County	1,258 M	61,454
San Bernardino Co...	742 M	29,688

QUANTITY AND VALUE OF MINERAL PRODUCTS OF CALIFORNIA—1908.

PAVING BLOCKS—Continued.	QUANTITY.	VALUE.
Solano County	234 M	$7,008
Sonoma County	5,226 M	228,630
Totals.....	7,660 M	$334,780

PETROLEUM.		
Fresno County	10,725,389 bbls.	$5,898,964
Kern County	18,777,871 bbls.	9,388,935
Los Angeles County..	6,244,347 bbls.	4,082,052
Orange County	3,376,689 bbls.	2,532,517
San Luis Obispo Co...	10,000 bbls.	5,000
Santa Barbara County	8,847,589 bbls.	4,423,794
Santa Clara County..	35,400 bbls.	17,700
Ventura County	289,625 bbls.	217,219
Totals.....	48,306,910 bbls.	$26,566,181

PLATINUM.		
Unapportioned	706 ounces	$13,414

PYRITES.		
Alameda County	13,404 tons	$70,782
Shasta County	93,677 tons	539,553
Totals.....	107,081 tons	$610,335

QUARTZ CRYSTALS.	QUANTITY.	VALUE.
Calaveras County	4,000 lbs.	$10,000

QUICKSILVER.		
Colusa County	21 flasks	$900
Lake County	1,300 flasks	54,951
Monterey County	7 flasks	296
Napa County	2,340 flasks	98,912
San Benito County...	9,600 flasks	405,792
San Luis Obispo Co...	867 flasks	36,648
Santa Clara County..	2,460 flasks	103,984
Solano County	764 flasks	33,294
Sonoma County	590 flasks	24,939
Trinity County	90 flasks	3,804
Totals.....	18,039 flasks	$763,520

RUBBLE.		
Contra Costa County.	318,000 tons	$210,000
Los Angeles County..	72,045 tons	56,540
Madera County	8,560 tons	2,140
Marin County	111,686 tons	66,700
Mariposa County	42,400 tons	27,560
Napa County	4,666 tons	3,333
Nevada County	330 tons	300
Placer County	45,979 tons	20,477
Riverside County	192,592 tons	209,498

QUANTITY AND VALUE OF MINERAL PRODUCTS OF CALIFORNIA—1908.

RUBBLE—Continued.	Quantity.	Value.
Sacramento County ..	4,785 tons	$3,828
San Bernardino Co...	30,273 tons	20,829
San Diego County...	1,959 tons	2,539
San Francisco County	63,135 tons	54,148
San Luis Obispo Co...	735 tons	900
Santa Barbara County	49,014 tons	10,930
Solano County	1,785 tons	1,428
Sonoma County	30,500 tons	20,850
Stanislaus County ...	61,800 tons	74,000
Ventura County	18,800 tons	9,006
Totals.....	1,059,044 tons	$795,006

SALT.		
Alameda County	78,462 tons	$108,694
Colusa County	10 tons	125
Los Angeles County..	12,000 tons	48,000
San Bernardino Co...	90 tons	650
San Diego County....	7,000 tons	60,000
San Mateo County...	23,800 tons	60,900
Solano County	400 tons	2,800
Tehama County	2 tons	300
Totals.....	121,764 tons	$281,469

SANDSTONE.	Quantity.	Value.
Colusa County	73,284 cu. ft.	$43,971
Los Angeles County..	6,292 cu. ft.	2,000
Santa Barbara County	10,525 cu. ft.	6,545
Siskiyou County	1,800 cu. ft.	1,485
Yolo County	1,400 cu. ft.	1,150
Totals.....	93,301 cu. ft.	$55,151

SILVER.	Com. Value.
Amador County	$13,239
Butte County	12,708
Calaveras County	62,727
Colusa County	6
Del Norte County	19
El Dorado County	5,504
Fresno County	11
Humboldt County	325
Imperial County	123
Inyo County	30,900
Kern County	96,550
Lassen County	783
Madera County	1,264
Mariposa County	4,732
Merced County*	1,196

*U. S. Geological Survey reports silver for Merced and Stanislaus counties together.

QUANTITY AND VALUE OF MINERAL PRODUCTS OF CALIFORNIA—1908.

SILVER—Continued.	Com. Value.
Mono County	$26,134
Monterey County	9
Nevada County	21,914
Placer County	2,194
Plumas County	3,560
Riverside County	112
Sacramento County	1,621
San Bernardino County	35,704
San Diego County	86
Shasta County	517,596
Sierra County	1,917
Siskiyou County	6,125
Stanislaus County*	.....
Trinity County	4,269
Tuolumne County	$11,732
Yuba County	9,997
Total	$873,057

* U. S. Geological Survey Reports silver for Merced and Stanislaus counties together.

SLATE.		
El Dorado County	6,000 squares	$50,000
SOAPSTONE.		
Alameda County	3 tons	$48
SODA.		
Unapportioned	9,600 tons	$14,400
TUNGSTEN.		
Unapportioned	.....	$37,750
ZINC.		
Unapportioned	54,000 lbs.	$3,544

ASSESSED VALUATION, AREA, AND POPULATION OF CALIFORNIA.

	*Grand Total Value of All Property in 1909.	Area, in Square Miles.	Population 1900.
Alameda County	$210,512,357	840	130,197
Alpine County	513,444	575	509
Amador County	5,545,591	568	11,116
Butte County	21,891,419	1,764	17,117
Calaveras County	6,463,321	990	11,200
Colusa County	12,992,538	1,080	7,364
Contra Costa County	32,472,408	750	18,046
Del Norte County	3,957,135	1,546	2,408
El Dorado County	5,758,516	1,891	8,986
Fresno County	63,809,821	5,940	37,862
Glenn County	12,668,965	1,400	5,150
Humboldt County	29,350,436	3,507	27,104
Imperial County	9,521,584	4,140	†
Inyo County	4,485,895	10,224	4,377
Kern County	44,184,162	8,159	16,480
Kings County	13,074,910	1,257	9,871
Lake County	3,624,990	1,332	6,017
Lassen County	6,437,333	4,750	4,511
Los Angeles County	593,879,367	3,957	170,298
Madera County	9,632,927	2,140	6,364
Marin County	19,353,481	516	15,702
Mariposa County	2,462,315	1,580	4,720
Mendocino County	15,536,157	3,460	20,465
Merced County	19,686,439	1,750	9,215
Modoc County	5,722,092	4,097	5,076
Mono County	1,315,700	2,796	2,167
Monterey County	28,261,983	3,450	19,380
Napa County	16,288,008	800	16,451
Nevada County	8,107,679	958	17,789
Orange County	31,936,637	780	19,696
Placer County	$12,757,392	1,484	15,786
Plumas County	5,645,747	2,361	4,657
Riverside County	30,669,885	7,008	17,897
Sacramento County	58,298,532	1,007	45,915
San Benito County	7,255,145	1,476	6,633
San Bernardino County	45,379,872	20,055	27,929
San Diego County	37,481,203	4,377	35,090
San Francisco County	530,487,347	42	342,782
San Joaquin County	50,592,150	1,370	35,452
San Luis Obispo County	17,167,465	3,500	16,637
San Mateo County	27,075,129	470	12,094
Santa Barbara County	32,108,358	2,450	18,934
Santa Clara County	72,002,490	1,355	60,216
Santa Cruz County	19,739,021	425	21,512
Shasta County	15,906,362	4,050	17,318
Sierra County	2,357,456	940	4,017
Siskiyou County	18,412,339	6,078	16,962
Solano County	22,032,342	911	24,143
Sonoma County	36,205,221	1,540	38,480
Stanislaus County	22,242,512	1,486	9,550
Sutter County	7,652,074	611	5,886
Tehama County	13,410,379	3,200	10,996
Trinity County	2,881,330	3,276	4,383
Tulare County	41,241,226	4,935	18,357
Tuolumne County	8,094,840	2,282	11,166
Ventura County	24,711,242	1,850	14,367
Yolo County	21,022,881	1,017	13,618
Yuba County	7,378,994	625	8,620
Totals	$2,438,656,544	158,297	1,485,053

† County created in 1907.

* Report of State Controller.

COUNTY MINERAL PRODUCTS AND VALUE—1908.

ALAMEDA COUNTY.	QUANTITY.	VALUE.
Asphalt	11,943 tons	$143,376
Brick	1,800 M	10,800
Chrome	70 tons	595
Clay	16,370 tons	44,822
Macadam	483,492 tons	465,653
Magnesite	2,000 tons	24,000
Manganese	260 tons	4,680
Pyrites	13,404 tons	70,782
Salt	78,462 tons	108,694
Sand (Glass)	250 tons	625
Soapstone	3 tons	48
		$874,075

AMADOR COUNTY.	QUANTITY.	VALUE.
Asbestos	10 tons	$1,000
Brick	2,109 M	61,600
Clay	23,322 tons	25,369
Copper	53,940 lbs.	3,440
Gold	.....	1,876,174
Lead	1,072 lbs.	40
Lime	800 bbls.	960
Limestone	1,000 tons	1,375
Silver	.....	13,239
		$1,983,197

BUTTE COUNTY.	QUANTITY.	VALUE.
Gold	.....	$3,139,398
Macadam	18,176 tons	7,916
Mineral Water	22,450 gals.	2,450
Silver	.....	12,708
		$3,162,472

CALAVERAS COUNTY.	QUANTITY.	VALUE.
Clay	25 tons	$250
Copper	4,804,446 lbs.	555,704
Gold	.....	1,378,511
Limestone	14,165 tons	31,446
Mineral Paint	50 tons	250
Quartz Crystals	4,000 lbs.	10,000
Silver	.....	62,727
		$2,038,888

COLUSA COUNTY.	QUANTITY.	VALUE.
Gold	.....	$578
Mineral Water	200,000 gals.	88,000
Macadam	1,000 tons	850
Quicksilver	21 flasks	900
Silver	.....	6
Salt	10 tons	125
Sandstone	73,284 cu. ft.	43,971
		$134,430

COUNTY MINERAL PRODUCTS AND VALUE—1908.

CONTRA COSTA COUNTY.	QUANTITY.	VALUE.
Asphalt	9,500 tons	$123,500
Brick	55,844 M	335,737
Clay	6,000 tons	7,500
Limestone	9,140 tons	18,282
Macadam	43,853 tons	26,047
Mineral Water	109,400 gals.	5,470
Rubble	318,000 tons	210,000
		$726,536

DEL NORTE COUNTY.		
Copper	74,787 lbs.	$9,984
Gold	.....	3,488
Silver	.....	19
		$13,491

EL DORADO COUNTY.		
Copper	603 lbs.	$83
Gold	.....	342,033
Lime	15,921 bbls.	20,192
Macadam	2,000 tons	1,600
Paving Blocks	200 M	8,000
Silver	.....	5,504
Slate	6,000 squares	50,000
		$427,412

FRESNO COUNTY.	QUANTITY.	VALUE.
Asphalt	500 tons	$5,500
Brick	13,220 M	106,960
Clay	9,000 tons	26,000
Gold	.....	1,054
Granite	16,900 cu. ft.	16,900
Petroleum	10,725,389 bbls.	5,898,964
Silver	.....	11
		$6,055,389

HUMBOLDT COUNTY.		
Brick	760 M	$8,585
Gold	.....	33,066
Granite	1,280 cu. ft.	1,280
Macadam	11,622 tons	13,074
Silver	.....	325
		$56,330

IMPERIAL COUNTY.		
Brick	2,225 M	$22,250
Copper	374 lbs.	51
Gold	.....	5,848
Silver	.....	123
		$28,272

COUNTY MINERAL PRODUCTS AND VALUE—1908.

INYO COUNTY.	QUANTITY.	VALUE.
Copper	6,820 lbs.	$938
Gold	.....	308,873
Lead	683,401 lbs.	28,244
Silver	.....	30,900
		$368,955

KERN COUNTY.		
Asphalt	50,000 tons	$475,000
Brick	2,080 M	19,552
Gold	.....	827,087
Gypsum	500 tons	2,000
Lime	116,717 bbls.	87,788
Petroleum	18,777,871 bbls.	9,388,935
Silver	.....	96,550
		$10,896,912

KINGS COUNTY.		
Brick	3,000 M	$24,000
Fuller's Earth	50 tons	1,000
Gypsum	100 tons	400
		$25,400

LAKE COUNTY.		
Macadam	8,210 tons	$10,000
Mineral Water	246,545 gals.	118,300
Quicksilver	1,300 flasks	54,951
		$183,251

LASSEN COUNTY.	QUANTITY.	VALUE.
Gold	.....	$7,284
Silver	.....	783
		$8,067

LOS ANGELES COUNTY.		
Asphalt	25,000 tons	$250,000
Brick	108,414 M	800,163
Clay	25,934 tons	55,274
Gems	.....	8,500
Gypsum	12,000 tons	75,000
Macadam	685,790 tons	542,078
Mineral Water	573,975 gals.	42,857
Petroleum	6,244,347 bbls.	4,082,052
Rubble	72,045 tons	56,540
Salt	12,000 tons	48,000
Sandstone	6,292 cu. ft.	2,000
Sand (Glass)	2,000 tons	16,000
		$5,978,464

MARIN COUNTY.		
Brick	10,000 M	$50,000
Mineral Water	52,000 gals.	12,050
Rubble	111,686 tons	66,700
		$128,750

COUNTY MINERAL PRODUCTS AND VALUE—1908.

MADERA COUNTY.	Quantity.	Value.
Brick	250 M	$2,250
Copper	113,293 lbs.	15,454
Gold	.....	45.107
Granite	140,086 cu. ft.	123,668
Lead	2,279 lbs.	84
Rubble	8,560 tons	2,140
Silver	.....	1,264
		$189,967

MARIPOSA COUNTY.		
Copper	29,124 lbs.	$2,958
Gold	.....	439,862
Macadam	15,000 tons	9,000
Rubble	42,400 tons	27,560
Silver	.....	4,732
		$484,112

MENDOCINO COUNTY.		
Brick	260 M	$2,600
Mineral Water	45,000 gals.	9,800
		$12,400

MERCED COUNTY.	Quantity.	Value.
Brick	700 M	$6,300
Copper	694 lbs.	70
Gold*	.....	182,970
Lead	965 lbs.	36
Silver*	.....	1,196
		$190,572

MONO COUNTY.		
Gold	.....	$413,946
Mineral Water	7,100 gals.	5,575
Silver	.....	26,134
		$445,655

MONTEREY COUNTY.		
Brick	426 M	$3,838
Glass-Sand	6,805 tons	5,120
Gold	.....	1,318
Gypsum	2,000 tons	8,000
Lime	50,000 bbls.	50,000
Macadam	92,420 tons	31,727
Quicksilver	7 flasks	296
Silver	.....	9
		$100,308

* U. S. Geological Survey reports for Merced and Stanislaus counties together.

COUNTY MINERAL PRODUCTS AND VALUE—1908.

NAPA COUNTY.	QUANTITY.	VALUE.
Macadam	101,078 tons	$75,395
Mineral Water	145,500 gals.	101,090
Quicksilver	2,340 flasks	98,912
Rubble	4,666 tons	3,333
		$278,730

NEVADA COUNTY.		
Copper	30,166 lbs.	$4,104
Gold	.....	2,297,963
Granite	700 cu. ft.	2,100
Lead	663 lbs.	25
Macadam	3,623 tons	1,387
Rubble	330 tons	300
Silver	.....	21,914
		$2,327,793

ORANGE COUNTY.		
Brick	4,050 M	$20,450
Clay	9,000 tons	18,600
Lead	14,445 lbs.	534
Macadam	16,055 tons	3,005
Petroleum	3,376,689 bbls.	2,532,517
		$2,575,106

PLACER COUNTY.	QUANTITY.	VALUE.
Asbestos	50 tons	$5,000
Brick	1,300 M	46,300
Clay	13,000 tons	11,500
Gold	.....	358,096
Granite	109,293 cu. ft.	157,992
Lime	1,727 bbls.	1,710
Rubble	45,979 tons	20,477
Silver	.....	2,194
		$603,269

PLUMAS COUNTY.		
Gold	.....	$254,737
Manganese	1 ton	25
Silver	.....	3,560
		$258,322

RIVERSIDE COUNTY.		
Asbestos	10 tons	$100
Lime	8,300 bbls.	8,300
Limestone	8,000 tons	8,000
Brick	4,803 M	74,086
Clay	71,231 tons	89,752
Copper	22,665 lbs.	2,816
Gold	.....	5,884

COUNTY MINERAL PRODUCTS AND VALUE—1908.

RIVERSIDE COUNTY—Contd.	Quantity.	Value.
Granite	156,100 cu. ft.	$151,901
Magnesite	2,000 tons	4,000
Macadam	347,517 tons	25,625
Paving Blocks	1,258 M	61,454
Rubble	192,592 tons	209,498
Silver	.....	112
		$641,528

SACRAMENTO COUNTY.		
Brick	7,936 M	$63,491
Gold	.....	1,166,055
Granite	44,151 cu. ft.	44,151
Macadam	211,622 tons	147,649
Natural Gas	55,000 M cu. ft.	55,000
Rubble	4,785 tons	3,828
Silver	.....	1,621
		$1,481,795

SAN BENITO COUNTY.		
Bituminous Rock	600 tons	$2,820
Gems	.....	16,500
Macadam	116,000 tons	60,400
Mineral Water	26,000 gals.	2,600
Quicksilver	9,600 flasks	405,792
		$488,112

SAN BERNARDINO COUNTY.	Quantity.	Value.
Brick	1,050 M	$7,350
Copper	516,940 lbs.	71,079
Gems	.....	200
Gold	.....	180,511
Granite	4,848 cu. ft.	4,029
Gypsum	20,000 tons	70,000
Lead	409,570 lbs.	17,218
Limestone	104,236 tons	97,466
Macadam	191,445 tons	176,696
Marble	150 cu. ft.	500
Paving Blocks	742 M	29,688
Rubble	30,273 tons	20,829
Salt	90 tons	650
Silver	.....	35,704
		$711,920

SAN JOAQUIN COUNTY.		
Brick	28,412 M	$189,560
Clay	2,600 tons	13,000
Manganese	60 tons	1,080
Natural Gas	60,903 M cu. ft.	49,194
		$252,834

COUNTY MINERAL PRODUCTS AND VALUE—1908.

SAN DIEGO COUNTY.	QUANTITY.	VALUE.
Brick	2,112 M	$16,719
Gems	.....	121,500
Gold	.....	6,920
Granite	9,000 cu. ft.	10,000
Macadam	29,020 tons	34,583
Mineral Water	9,810 gals.	11,772
Rubble	1,959 tons	2,539
Salt	7,000 tons	60,000
Silver	.....	86
		$264,119

SAN FRANCISCO COUNTY.		
Asphalt	1,500 tons	$15,000
Brick	41,837 M	345,155
Macadam	53,763 tons	41,111
Rubble	63,135 tons	54,148
		$455,414

SAN LUIS OBISPO COUNTY.		
Bituminous Rock	5,077 tons	$21,875
Brick	1,440 M	12,900
Mineral Water	4,800 gals.	1,056
Petroleum	10,000 bbls.	5,000
Quicksilver	867 flasks	36,648
Rubble	735 tons	900
		$78,379

SAN MATEO COUNTY.	QUANTITY.	VALUE.
Brick	4,494 M	$63,231
Limestone	37,687 tons	17,451
Macadam	92,264 tons	89,142
Salt	23,800 tons	60,900
		$230,724

SANTA BARBARA COUNTY.		
Asphalt	7,000 tons	$70,000
Brick	750 M	7,500
Infusorial Earth	2,950 tons	32,012
Limestone	16,580 tons	33,160
Mineral Water	5,500 gals.	4,932
Natural Gas	715,612 M cu. ft.	357,806
Petroleum	8,847,589 bbls.	4,423,794
Rubble	49,014 tons	10,930
Sandstone	10,525 cu. ft.	6,545
		$4,946,679

SANTA CLARA COUNTY.		
Brick	15,000 M	$63,618
Lime	10,017 bbls.	10,017
Limestone	671 tons	1,417
Macadam	51,966 tons	45,142
Mineral Water	371,635 gals.	39,955
Petroleum	35,400 bbls.	17,700
Quicksilver	2,460 flasks	103,984
		$281,833

COUNTY MINERAL PRODUCTS AND VALUE—1908.

SANTA CRUZ COUNTY.	Quantity.	Value.
Bituminous Rock	25,041 tons	$85,123
Clay	28,400 tons	28,400
Granite	450 cu. ft.	336
Lime	119,996 bbls.	119,996
Limestone	1,178 tons	2,167
Macadam	18,284 tons	19,736
		$255,758

SHASTA COUNTY.		
Brick	2,000 M	$12,000
Chrome	280 tons	5,600
Copper	34,878,677 lbs.	4,642,976
Gold	.....	1,131,832
Lime	11,818 bbls.	9,100
Limestone	80,000 tons	80,000
Macadam	10,000 tons	25,000
Mineral Water	100,000 gals	20,000
Pyrites	93,677 tons	539,553
Silver	.....	517,596
		$6,983,657

SIERRA COUNTY.		
Gold	.....	$412,626
Silver	.....	1,917
		$414,543

SISKIYOU COUNTY.	Quantity.	Value.
Gold	.....	$504,156
Lead	4,949 lbs.	183
Lime	1,090 bbls.	1,680
Mineral Water	700,000 gals.	80,000
Sandstone	1,800 cu. ft.	1,485
Silver	.....	6,125
		$593,629

SOLANO COUNTY.		
Brick	1,000 M	$7,000
Macadam	232,791 tons	518,883
Mineral Water	140,000 gals.	11,600
Natural Gas	7,743 M cu. ft.	8,053
Paving Blocks	234 M	7,008
Quicksilver	764 flasks	33,294
Rubble	1,785 tons	1,428
Salt	400 tons	2,800
		$590,066

SUTTER COUNTY.		
Macadam	5,000 tons	$5,000

SONOMA COUNTY.		
Brick	11,000 M	$83,000
Clay	2,600 tons	3,000
Granite	566 cu. ft.	566
Macadam	63,380 tons	57,919
Magnesite	15 tons	180

COUNTY MINERAL PRODUCTS AND VALUE—1908.

SONOMA COUNTY—Continued.	Quantity.	Value.
Mineral Water	10,000 gals.	$1,000
Paving Blocks	5,226 M	228,630
Quicksilver	590 flasks	24,939
Rubble	30,500 tons	20,850
		$420,084
STANISLAUS COUNTY.		
Brick	750 M	$7,000
Gold*	.....	.....
Mineral Paint	285 tons	2,000
Rubble	61,800 tons	74,000
Silver*	.....	.....
		$83,000
TRINITY COUNTY.		
Gold	.....	$602,944
Quicksilver	90 flasks	3,804
Silver	.....	4,269
		$611,017
TEHAMA COUNTY.		
Brick	400 M	$3,000
Mineral Water	20,000 gals.	2,000
Salt	2 tons	300
		$5,300

* Gold and silver for Stanislaus and Merced counties reported together by U. S. Geological Survey.

TULARE COUNTY.	Quantity.	Value.
Brick	2,250 M	$18,000
Gems	.....	62,250
Magnesite	6,567 tons	52,642
		$132,892
TUOLUMNE COUNTY.		
Gold	.....	$798,752
Lime	60,000 bbls.	69,500
Limestone	1,233 tons	6,500
Marble	18,503 cu. ft.	47,165
Silver	.....	11,732
		$933,649
VENTURA COUNTY.		
Brick	200 M	$1,500
Clay	560 tons	1,680
Macadam	17,500 tons	6,400
Natural Gas	3,625 M cu. ft.	4,531
Petroleum	289,625 bbls.	217,219
Rubble	18,800 tons	9,005
		$240,336

COUNTY MINERAL PRODUCTS AND VALUE—1908.

YOLO COUNTY.	QUANTITY.	VALUE.
Sandstone	1,400 cu. ft.	$1,150
YUBA COUNTY.		
Brick	1,000 M	$10,000
Gold	.....	2,034,486
Macadam	17,000 tons	5,750
Silver	.....	9,997
		$2,060,233

UNAPPORTIONED.	VALUE
Borax	$117,000
Cement	2,359,692
Coal	55,503
Copper	41,120
Glass (Sand)	300
Lead	299
Platinum	13,414
Soda	14,400
Tungsten	37,750
Zinc	3,544
	$2,643,022

MINERAL PRODUCTS BY COUNTIES, 1900-1908, SUBSTANCES AND VALUES.*

That full justice may be given to all mineralized counties in California, the California State Mining Bureau publishes, herewith, covering a series of years, the total values of and details of mineral production, giving to the several counties their proper share of that which has been, heretofore, placed under the general heading of "unapportioned." This will enable all counties to use this publication, properly, for promotion purposes, and, it is obvious, to their legitimate and large advantage. In the annual bulletins the use of the "unapportioned" column is still necessary and will be so always. But there is no reason why the various richly mineralized portions of the State should not have their mineral wealth known, as representing the output of a period, and it is and will be the purpose of this Bureau to spread information of this kind as widely as possible, for the purpose of enlightening those who are seeking for mining investments or places in which to place their capital in plants for the production of such minerals as are common to a large majority of California counties. The Bureau believes that the detailed statements will prove of value to all localities and to the State of California as a whole.

In 1894 the California State Mining Bureau began to keep a record, based on the individual returns of producers, of the annual mineral output of this State. The work is now widened in its scope.

* Unapportioned is not given by years, as such segregation would reveal private business in many instances.

PRODUCTS BY VALUES—1900-1908.

ALAMEDA COUNTY.

Substances.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Asphalt								$14,400	$143,376	
Brick	$40,000	$67,130	$60,000	$82,400	$90,000	$95,500	$413,750	474,350	10,800	
Chrome									595	
Clay							10,000	14,299	44,822	
Coal	332,066	262,272	203,550							
Copper		2,162								
Lead			52							
Lime				15,000						
Macadam	107,551	106,576	185,295	193,498	241,357	441,587	468,937	461,726	465,653	
Magnesite	180	1,100	500					33,300	24,000	
Manganese	1,300	4,365	7,140		900				4,680	
Pyrites		18,000	53,301	88,500	62,992	63,958	56,000	54,410	70,782	
Rubble		625		7,204	42,824	7,442	27,545	50,881		
Salt	158,674	324,136	160,000	143,605	76,340	54,200	126,838	163,127	108,694	
Sand-Glass							1,750		625	
Soapstone									48	
Unapportioned										$233,032
Totals	$639,771	$786,366	$666,838	$530,207	$514,413	$662,687	$1,104,820	$1,266,493	$874,075	$7,278,702

ALPINE COUNTY.

Copper		$1,319								
Gold		23,568	$10,359	$2,701	$4,827	$575				
Silver		2,860	3,770	146	145					
Unapportioned										$5,465
Totals		$27,747	$14,129	$2,847	$4,972	$575				$55,735

PRODUCTS BY VALUES—1900-1908.

AMADOR COUNTY.

SUBSTANCES.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Asbestos	.....	.....	.....	.....	.....	.....	.....	.....	$1,000	.....
Brick	.....	$7,000	.....	.....	.....	.....	.....	.....	61,600	.....
Clay	$9,100	7,100	$13,728	$19,460	$10,770	$20,000	$28,119	$13,992	25,369	.....
Coal	41,215	30,000	10,912	.....	.....	.....	.....	.....	.....	.....
Copper	34,100	8,190	14,620	900	1,400	1,560	1,669	1,020	3,440	.....
Glass-Sand	.....	.....	.....	.....	750	.....	.....	.....	.....	.....
Gold	1,373,788	1,823,827	1,629,151	1,609,744	2,060,573	2,445,815	2,260,376	2,116,182	1,876,174	.....
Lead	.....	.....	.....	.....	.....	.....	.....	.....	40	.....
Lime	.....	.....	.....	.....	1,700	1,500	1,200	.....	960	.....
Limestone	.....	.....	.....	.....	.....	.....	.....	1,200	1,375	.....
Marble	5,891	4,630	8,016	5,379	6,558	3,950	.....	.....	.....	.....
Silver	14,915	7,444	2,686	4,336	4,055	17,930	14,579	13,515	13,239	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$304,462
Totals	$1,479,009	$1,888,191	$1,679,113	$1,639,819	$2,085,806	$2,490,755	$2,305,943	$2,145,909	$1,983,197	$18,002,204

BUTTE COUNTY.

Brick	.....	$7,200	$5,000	$7,200	$4,020	$3,200	$1,300	.....	.....	.....
Gold	$485,589	864,978	916,782	1,571,507	1,932,552	2,607,500	3,016,747	$2,786,840	$3,139,398	.....
Lime	600	1,500	750	250	.....	.....	.....	.....	.....	.....
Limestone	.....	.....	.....	250	.....	.....	.....	.....	.....	.....
Macadam	.....	.....	.....	.....	.....	.....	.....	.....	7,916	.....
Mineral Water	1,515	1,455	1,500	1,550	1,512	1,500	1,950	2,140	2,450	.....
Platinum	.....	.....	.....	210	1,000	1,770	475	.....	.....	.....
Silver	13,082	4,634	2,219	358	2,302	7,134	10,853	8,967	12,708	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$105,870
Totals	$500,786	$879,767	$926,251	$1,581,325	$1,941,386	$2,621,104	$3,031,325	$2,797,947	$3,162,472	$17,548,233

PRODUCTS BY VALUES—1900-1908.

CALAVERAS COUNTY.

Substances.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Chrome	.....	.....	.....	.....	$375	$300	$280	$840	.....	.....
Clay	.....	.....	.....	.....	100	300	50	250	$250	.....
Copper	$150,585	$268,000	$251,062	$297,263	414,349	572,022	956,315	604,203	555,704	.....
Gems	.....	.....	.....	.....	.....	10,000	.....	.....	.....	.....
Gold	1,649,126	2,024,685	2,072,939	1,904,125	1,789,184	1,736,816	1,644,234	1,037,974	1,378,511	.....
Lime	.....	.....	.....	.....	5,500	.....	.....	.....	.....	.....
Limestone	.....	.....	.....	.....	.....	15,430	7,635	16,955	31,446	.....
Mineral Paint	3,800	500	778	1,000	385	1,900	.....	.....	250	.....
Platinum	.....	.....	.....	.....	.....	.....	250	.....	.....	.....
Pyrites	3,583	.....	.....	.....	.....	.....	.....	.....	.....	.....
Quartz Crystals	18,000	17,500	.....	.....	.....	.....	.....	10,000	10,000	.....
Silver	80,762	44,687	46,234	68,280	65,611	.....	74,010	54,420	62,727	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$50,975
Totals	$1,905,856	$2,355,372	$2,371,013	$2,270,668	$2,275,554	$2,415,627	$2,682,863	$1,789,642	$2,038,888	$20,155,558

COLUSA COUNTY.

Brick	.....	$2,160	.....	.....	$1,800	.....	.....	.....	.....	.....
Gold	.....	1,800	$850	.....	.....	.....	.....	$734	$578	.....
Macadam	.....	.....	.....	.....	.....	.....	.....	3,550	$50	.....
Mineral Water	$12,350	20,220	79,698	$85,900	38,051	.....	.....	51,233	88,000	.....
Quicksilver	1,500	10,575	26,100	21,708	16,526	$12,321	.....	648	900	.....
Rubble	.....	.....	.....	.....	1,250	.....	.....	.....	.....	.....
Salt	80	270	396	360	180	225	$170	240	125	.....
Sandstone	.....	80,082	87,456	312,500	290,000	276,908	101,802	79,259	43,971	.....
Silver	.....	.....	.....	.....	.....	.....	.....	8	6	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$104,508
Totals	$13,930	$115,107	$194,500	$420,468	$347,807	$289,454	$101,972	$134,622	$134,430	$1,856,798

PRODUCTS BY VALUES—1900-1908.

CONTRA COSTA COUNTY.

SUBSTANCES.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Asphalt	.....	.....	.....	.....	.....	.....	.....	$21,870	$123,500	.....
Brick	.....	.....	$11,600	$16,000	$67,495	$73,948	$169,022	403,564	335,737	.....
Clay	.....	.....	.....	.....	.....	.....	.....	.....	7,500	.....
Coal	$145,000	$100,000	31,160	.....	.....	.....	.....	.....	.....	.....
Copper	.....	.....	3,645	.....	.....	.....	.....	.....	.....	.....
Lime	.....	.....	.....	4,500	10,359	13,925	.....	1,113	.....	.....
Limestone	.....	.....	.....	22,500	.....	13,500	.....	43,038	18,282	.....
Macadam	.....	.....	.....	.....	18,750	61,620	75,025	210,250	26,047	.....
Mineral Water...	1,900	1,900	8,736	19,500	19,000	.....	.....	.....	5,470	.....
Rubble	.....	.....	.....	.....	11,310	4,500	.....	.....	210,000	.....
Unapportioned ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	$214,058
Totals	$146,900	$101,900	$55,141	$62,500	$129,914	$197,493	$244,047	$680,135	$726,536	$2,558,624

DEL NORTE COUNTY.

Copper	.....	.....	.....	.....	.....	.....	.....	.....	$9,984	.....
Gold	$3,483	$10,612	$5,450	$7,183	$7,399	$10,590	$5,945	$878	3,488	.....
Platinum	.....	.....	.....	.....	18	22	.....	.....	.....	.....
Silver	.....	.....	.....	.....	.....	.....	33	3	19	.....
Unapportioned ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	$20,000
Totals	$3,483	$10,612	$5,450	$7,183	$7,417	$10,612	$5,978	$881	$13,491	$85,107

PRODUCTS BY VALUES—1900-1908.

EL DORADO COUNTY.

Substances.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Asbestos	.....	.....	.....	.....	$162	$2,625	$1,000	.....	.....	.....
Copper	$500	.....	$319	.....	.....	24,960	.....	$122	$83	.....
Gold	368,541	$292,036	335,031	$277,304	474,994	384,735	431,746	319,177	342,033	.....
Lime	6,000	11,000	16,176	7,000	7,075	6,946	21,138	16,198	20,192	.....
Limestone	.....	.....	.....	.....	.....	5,775	.....	15,318	.....	.....
Macadam	.....	.....	.....	.....	.....	.....	.....	.....	1,600	.....
Paving Blocks	.....	.....	.....	.....	.....	.....	.....	.....	8,000	.....
Slate	26,250	38,250	30,000	.....	50,000	40,000	100,000	60,000	50,000	.....
Silver	25,129	5,977	52	.....	.....	2,525	2,690	2,301	5,504	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$251,829
Totals	$426,420	$347,263	$381,578	$284,304	$532,231	$467,566	$556,574	$413,116	$427,412	$4,088,293

FRESNO COUNTY.

Asphalt	.....	.....	.....	$10,068	$6,948	.....	.....	.....	$5,500	.....
Bituminous Rock	.....	.....	.....	38	.....	.....	.....	.....	.....	.....
Brick	$35,062	$35,000	$45,000	68,000	32,400	$60,000	$64,000	$51,350	106,960	.....
Clay	.....	.....	.....	.....	.....	.....	.....	.....	26,000	.....
Copper	.....	182,648	345,000	.....	319	224,640	88,000	50,000	.....	.....
Gold	22,346	21,462	54,427	21,538	7,809	40,037	8,193	2,401	1,054	.....
Granite	.....	.....	.....	11,000	.....	.....	.....	10,500	16,900	.....
Magnesite	.....	.....	.....	.....	120	.....	.....	.....	.....	.....
Mineral Water	4,000	5,142	4,500	7,200	2,400	.....	.....	.....	.....	.....
Petroleum	547,960	263,444	199,931	730,673	1,520,847	2,400,300	1,974,470	3,620,120	5,898,964	.....
Silver	479	.....	21,200	111	4	9,187	83	26	11	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$268,534
Totals	$609,847	$480,696	$670,058	$848,628	$1,570,847	$2,734,164	$2,135,046	$3,740,397	$6,055,389	$19,113,606

PRODUCTS BY VALUES—1900-1908.

HUMBOLDT COUNTY.

Substances.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Brick	$7,100	$7,810	$17,040	$10,445	$21,350	$7,600	$8,690	$1,400	$8,585	.....
Gold	109,444	98,487	60,015	38,509	62,061	45,284	48,295	40,109	33,066	.....
Granite	.....	.....	.....	.....	.....	.....	.....	.....	1,280	.....
Macadam	.....	.....	.....	.....	.....	.....	.....	.....	13,074	.....
Mineral Water	2,000	2,000	2,500	.....	.....	.....	.....	.....	.....	.....
Platinum	.....	.....	.....	362	140	204	555	.....	.....	.....
Silver	283	128	.....	.....	.....	.....	240	214	325	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$20,975
Totals	$118,827	$108,425	$79,555	$49,316	$83,551	$53,628	$57,780	$41,723	$56,330	$670,110

INYO COUNTY.

Antimony	$700	.....	.....	.....	.....	.....	.....	.....	.....	.....
Borax	13,901	.....	$36,394	$26,400	.....	.....	.....	.....	.....	.....
Copper	.....	$1,349	126	3,098	$3,252	$23,649	$800	$1,356	$938	.....
Gold	213,655	162,406	74,397	66,045	150,474	135,959	19,449	57,241	308,873	.....
Lead	38,840	24,040	9,013	3,420	5,270	16,247	11,857	13,096	28,244	.....
Marble	.....	.....	.....	20,000	3,000	17,000	4,800	4,000	.....	.....
Salt	.....	.....	.....	2,400	800	.....	.....	.....	.....	.....
Silver	113,493	56,573	14,484	18,200	7,122	29,741	13,358	44,440	30,900	.....
Soda	50,000	400,000	50,000	.....	.....	.....	.....	.....	.....	.....
Zinc	.....	.....	.....	.....	.....	.....	.....	8,598	.....	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$811,732
Totals	$430,589	$668,618	$184,414	$139,563	$169,918	$222,596	$50,264	$128,731	$368,955	$3,175,380

PRODUCTS BY VALUES—1900-1908.

IMPERIAL COUNTY.

Substances.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Brick	.....	.....	.....	.....	.....	.....	.....	$10,000	$22,250	.....
Copper	.....	.....	.....	.....	.....	.....	.....	.....	51	.....
Gold	.....	.....	.....	.....	.....	.....	.....	.....	5,848	.....
Silver	.....	.....	.....	.....	.....	.....	.....	.....	123	.....
Totals	.....	.....	.....	.....	.....	.....	.....	$10,000	$28,272	$38,272

KINGS COUNTY.

Brick	$5,000	$5,000	$19,000	$24,200	$23,300	$24,000	$20,000	$8,000	$24,000	.....
Fuller's Earth	.....	.....	.....	.....	.....	9,000	.....	1,000	1,000	.....
Gypsum	.....	.....	.....	.....	.....	.....	.....	.....	400	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$10,500
Totals	$5,000	$5,000	$19,000	$24,200	$23,300	$33,000	$20,000	$9,000	$25,400	$174,400

KERN COUNTY.

Antimony	.....	$8,350	.....	.....	.....	.....	.....	.....	.....	.....
Asphalt	$14,020	43,126	$101,500	$100,787	$124,110	$105,860	$231,360	$260,158	$475,000	.....
Bituminous Rock	.....	.....	.....	63	.....	.....	.....	.....	.....	.....
Brick	17,300	23,400	24,500	30,000	4,900	6,000	34,200	18,428	19,552	.....
Clay	.....	.....	.....	.....	.....	54	752	.....	.....	.....
Copper	750	67,606	27,112	559	.....	.....	.....	.....	.....	.....
Fuller's Earth	3,750	19,500	19,246	4,750	9,500	.....	.....	.....	.....	.....
Gold	$65,252	1,007,059	1,165,982	1,022,353	1,426,523	1,160,971	$96,117	$78,798	$27,087	.....

PRODUCTS BY VALUES—1900-1908.

KERN COUNTY—Continued.

SUBSTANCES.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Gypsum	.....	.....	$8,000	$8,000	.....	$11,000	.....	$5,500	$2,000	.....
Lime	$51,700	$82,700	80,856	76,246	$172,000	255,500	$267,096	153,003	87,788	.....
Limestone	.....	.....	.....	.....	.....	44,000	.....	16,819	.....	.....
Petroleum	$27,348	1,131,616	1,955,585	3,600,230	3,431,408	3,174,966	3,765,200	4,673,867	9,388,935	.....
Silver	147,736	40,497	99,135	114,614	151,189	134,944	129,503	86,033	96,550	.....
Tungsten	.....	.....	.....	.....	.....	18,800	183,600	.....	.....	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$385,427
Totals	$1,867,856	$2,423,918	$3,481,926	$4,957,602	$5,319,630	$4,912,035	$5,417,828	$6,092,606	$10,896,912	$45,755,800

LAKE COUNTY.

Macadam	.....	.....	.....	.....	.....	.....	.....	.....	$10,000	.....
Mineral Water	$45,400	$120,360	$126,663	$187,621	$221,000	$219,500	$160,000	$130,936	118,300	.....
Quicksilver	127,345	211,324	161,568	106,397	109,719	51,937	38,909	30,604	54,951	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$28,423
Totals	$172,745	$331,684	$288,231	$294,018	$330,719	$271,437	$198,909	$161,540	$183,251	$2,260,957

LASSEN COUNTY.

Gold	$19,807	$5,900	$23,410	$91,102	$116,993	.....	.....	.....	$7,284	.....
Silver	676	200	244	1,203	1,515	.....	.....	.....	783	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$217,521
Totals	$20,483	$6,100	$23,654	$92,305	$118,508	.....	.....	.....	$8,067	$486,638

PRODUCTS BY VALUES—1900-1908.

LOS ANGELES COUNTY.

SUBSTANCES.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Asphalt	$100,000	$152,838	$171,904	$332,600	$307,068	$119,430	$259,200	$353,423	$250,000	
Brick	275,925	264,825	335,670	706,334	767,827	853,810	826,831	895,272	800,163	
Cement				1,175						
Clay	10,776	390	890	115	5,000	16,066	34,250	20,500	55,274	
Copper								169		
Gems									8,500	
Glass-Sand				2,558	4,254				16,000	
Gold	5,508	10,312	7,209	8,674	12,402	15,035				
Granite		17,500	3,500							
Gypsum	10,000	35,500		38,441		43,500	60,000	50,000	75,000	
Infusorial Earth			360				200			
Lead			504							
Lime					10,000		18,000	20,000		
Limestone								5,000		
Macadam	5,800	23,000	26,000	13,750	21,250	22,000		23,625	542,078	
Marble								3,000		
Mineral Paint			300							
Mineral Water				5,500	7,084	31,250	5,128	35,100	42,857	
Natural Gas		1,500								
Petroleum	1,722,387	1,062,038	1,075,868	1,294,866	1,289,910	1,056,188	908,800	2,633,541	4,082,052	
Rubble	18,552	53,729	75,547	104,435	62,576	47,025	176,559	13,279	56,540	
Salt		19,950	180	20,000	24,480	20,000	36,000	36,000	48,000	
Sandstone	3,750			9,734	13,145	9,950	9,540	19,076	2,000	
Serpentine	2,000	800		800	2,310			3,000		
Silver				22	73	100	1,694			
Soapstone		119		10,124	2,315					
Unapportioned										$337,303
Totals	$2,155,198	$1,642,591	$1,697,932	$2,549,128	$2,529,694	$2,234,354	$2,345,202	$4,110,985	$5,978,464	$25,580,851

PRODUCTS BY VALUES—1900-1908.

MADERA COUNTY.

Substances.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Brick	$3,000	$3,000	$1,840	$972	$3,750	.....	.....	$12,500	$2,250	.....
Copper	77,500	17,077	2,139	4,680	1,313	.....	.....	379	15,454	.....
Gold	104,134	82,749	35,128	93,070	75,303	$50,867	$22,390	13,303	45,107	.....
Granite	80,000	294,799	78,041	389,820	98,083	123,106	176,416	93,372	123,668	.....
Lead	.....	.....	.....	.....	.....	10,014	.....	47	84	.....
Macadam	.....	.....	.....	1,000	1,000	.....	.....	.....	.....	.....
Rubble	.....	600	4,000	.....	500	.....	.....	.....	2,140	.....
Silver	3,833	2,600	3	3	25	.....	508	506	1,264	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$65,000
Totals	$268,467	$100,825	$121,151	$489,525	$178,974	$183,987	$199,314	$120,107	$189,967	$2,217,317

MARIN COUNTY.

Brick	$200,000	$100,240	$97,700	$78,095	$132,000	$163,585	$199,300	$118,000	$50,000	.....
Macadam	.....	825	2,150	900	.....	32,250	53,000	.....	.....	.....
Mineral Water	.....	.....	.....	.....	.....	.....	.....	.....	12,050	.....
Rubble	2,500	27,162	105,350	139,432	170,995	12,000	300	134,111	66,700	.....
Salt	.....	.....	1,400	.....	.....	.....	.....	.....	.....	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$42,000
Totals	$202,500	$128,227	$206,600	$218,427	$302,995	$207,835	$252,600	$252,111	$128,750	$1,942,045

PRODUCTS BY VALUES—1900-1908.

MARIPOSA COUNTY.

SUBSTANCES.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Copper	.....	$30,180	$11,940	$6,808	$1,466	$1,956	.....	.....	$2,958	.....
Gold	$157,663	504,928	631,478	542,355	429,771	386,380	$366,394	$405,498	439,862	.....
Lead	.....	3,080	.....	.....	.....	.....	3,377	60	.....	.....
Macadam	.....	.....	.....	.....	.....	.....	.....	.....	9,000	.....
Platinum	.....	.....	.....	.....	.....	25	.....	.....	.....	.....
Rubble	.....	.....	.....	.....	.....	.....	.....	.....	27,560	.....
Silver	13,853	4,787	3,880	3,353	2,839	5,231	.....	4,150	4,732	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$8,431
Totals	$171,516	$542,975	$647,298	$552,516	$434,076	$393,592	$369,771	$409,708	$484,112	$4,013,995

MENDOCINO COUNTY.

Brick	$400	$2,500	$2,000	$5,580	$3,120	$6,470	$5,000	$4,000	$2,600	.....
Gold	.....	.....	.....	.....	75	40	19	.....	.....	.....
Mineral Water	8,048	8,220	7,898	15,000	12,000	18,000	9,800	9,800	9,800	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$18,000
Totals	$8,448	$10,720	$9,898	$20,580	$15,195	$24,510	$14,819	$13,800	$12,400	$148,370

MERCED COUNTY.*

* U. S. Geological Survey reports gold and silver for Merced and Stanislaus counties together.

Brick	.....	.....	.....	.....	.....	$3,500	$6,000	$12,500	$6,300	.....
Copper	.....	$12,453	$1,656	$780	$1,135	.....	.....	.....	70	.....
Gold*	.....	.....	.....	.....	.....	.....	.....	$22	182,970	.....
Lead	.....	.....	.....	.....	.....	.....	.....	.....	36	.....
Silver*	.....	.....	.....	.....	.....	.....	.....	10	1,196	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$18,264
Totals	.....	$12,453	$1,656	$780	$1,135	$3,500	$6,000	$13,332	$190,572	$247,692

PRODUCTS BY VALUES—1900-1908.

MONO COUNTY.

SUBSTANCES.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Copper	.....	$305	.....	$208	.....	.....	.....	.....	.....	.....
Gold	$670,200	493,355	$510,596	334,713	$268,930	$308,884	$338,698	$383,971	$413,946	.....
Lime	4,000	3,000	2,000	5,000	850	.....	.....	.....	.....	.....
Lead	2,000	1,160	154	36	.....	.....	.....	.....	.....	.....
Mineral Water	.....	.....	.....	.....	.....	.....	.....	.....	5,575	.....
Silver	75,921	25,091	36,518	20,067	2,955	11,240	13,151	29,797	26,134	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$106,736
Totals	$752,121	$522,911	$549,298	$360,024	$272,735	$320,124	$351,849	$413,768	$445,655	$4,551,875

MONTEREY COUNTY.

Asphalt	.....	.....	.....	.....	$1,488	.....	.....	.....	.....	.....
Brick	$1,600	.....	.....	.....	1,600	.....	.....	.....	$3,838	.....
Coal	.....	$1,000	.....	.....	.....	.....	.....	$24,000	.....	.....
Glass-Sand	.....	.....	$12,225	$4,967	7,272	$8,121	$1,125	8,178	5,120	.....
Gold	.....	13,800	6,860	8,920	6,941	4,000	625	1,076	1,318	.....
Gypsum	.....	.....	.....	.....	.....	.....	.....	.....	8,000	.....
Infusorial Earth	.....	.....	.....	.....	.....	.....	400	.....	.....	.....
Lime	.....	15,750	13,200	23,400	3,240	10,000	50,000	125,000	50,000	.....
Limestone	10,800	7,500	.....	9,000	21,500	.....	.....	.....	.....	.....
Macadam	.....	2,503	900	2,300	.....	.....	.....	.....	31,727	.....
Mineral Water	4,000	3,250	1,750	1,250	1,000	1,000	12,000	12,000	.....	.....
Quicksilver	.....	.....	.....	.....	.....	.....	.....	.....	296	.....
Rubble	2,775	6,366	4,300	867	.....	.....	.....	.....	.....	.....
Silver	.....	.....	18	.....	.....	.....	3	9	9	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$148,056
Totals	$19,175	$50,169	$39,253	$51,436	$43,041	$23,121	$64,153	$146,263	$100,308	$684,975

PRODUCTS BY VALUES—1900-1908.

NAPA COUNTY.

Substances.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Cement	.....	.....	.....	$435,552	.....	.....	.....	.....	.....	.....
Limestone	.....	$6,690	$8,496	.....	.....	.....	.....	.....	.....	.....
Macadam	.....	.....	.....	.....	$315	.....	.....	.....	$75,395	.....
Magnesite	$17,400	11,622	450	915	78	.....	.....	.....	.....	.....
Mineral Water	72,200	109,900	97,048	124,000	104,750	$89,500	$90,500	$103,600	101,090	.....
Quicksilver	403,500	388,176	304,474	333,006	199,586	171,910	$6,870	95,400	98,912	.....
Rubble	.....	.....	500	3,375	3,704	500	277	3,000	3,333	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$2,639,727
Totals	$493,100	$516,388	$410,968	$896,848	$308,433	$261,910	$180,147	$202,000	$278,730	$6,188,251

NEVADA COUNTY.

Copper	$20,472	$6,235	$3,975	$585	.....	.....	.....	$4,418	$4,104	.....
Gold	1,812,036	2,121,054	2,142,740	2,458,047	$3,130,304	$3,179,715	$2,658,420	2,162,088	2,297,963	.....
Granite	.....	.....	3,000	4,160	5,395	2,570	9,300	9,300	2,100	.....
Lead	.....	.....	.....	.....	.....	.....	.....	.....	25	.....
Macadam	.....	.....	.....	.....	.....	.....	.....	.....	1,387	.....
Platinum	.....	.....	.....	.....	.....	20	.....	.....	.....	.....
Pyrites	17,550	429	.....	.....	.....	.....	.....	.....	.....	.....
Rubble	.....	.....	.....	.....	.....	.....	.....	.....	300	.....
Silver	68,841	18,122	6,124	3,252	9,555	32,523	24,219	17,505	21,914	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$400,000
Totals	$1,916,899	$2,145,840	$2,155,839	$2,466,044	$3,145,254	$3,214,828	$2,691,939	$2,193,306	$2,327,793	$22,657,742

PRODUCTS BY VALUES—1900-1908.

ORANGE COUNTY.

SUBSTANCES.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Brick	.....	.....	.....	$13,000	$9,000	$11,800	$13,500	$26,000	$20,450	.....
Clay	.....	.....	.....	.....	.....	14,581	12,900	.....	18,600	.....
Coal	$2,250	$1,500	.....	.....	.....	.....	.....	.....	.....	.....
Copper	.....	.....	.....	.....	.....	.....	.....	193	.....	.....
Gold	2,407	4,000	$250	150	.....	.....	.....	.....	.....	.....
Gypsum	.....	250	.....	.....	.....	.....	.....	.....	.....	.....
Lead	.....	.....	.....	.....	.....	.....	.....	1,303	534	.....
Macadam	.....	.....	.....	.....	.....	.....	.....	.....	3,005	.....
Petroleum	254,397	181,591	824,492	1,016,285	1,144,542	711,633	1,194,000	1,456,050	2,532,517	.....
Sandstone	120	.....	.....	.....	200	250	.....	.....	.....	.....
Zinc	.....	.....	.....	.....	.....	.....	.....	2,000	.....	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$72,586
Totals	$259,174	$187,341	$824,742	$1,029,435	$1,153,742	$738,264	$1,220,400	$1,485,546	$2,575,106	$9,546,336

PLACER COUNTY.

Asbestos	.....	.....	.....	.....	.....	.....	$2,500	$3,500	$5,000	.....
Brick	.....	.....	.....	.....	.....	.....	.....	.....	46,300	.....
Clay	$15,000	$15,000	$15,000	$15,000	$16,100	$10,000	15,000	20,000	11,500	.....
Copper	.....	1,764	368	520	76,500	57,291	38,600	.....	.....	.....
Gold	986,155	900,745	843,366	570,571	778,355	597,793	.....	482,772	358,096	.....
Granite	95,869	89,874	105,377	181,661	110,371	.....	66,030	94,459	157,992	.....
Lime	.....	.....	.....	9,000	.....	8,737	11,950	11,430	1,710	.....
Limestone	.....	.....	.....	4,000	.....	.....	.....	79,768	.....	.....
Macadam	.....	.....	.....	3,750	.....	.....	.....	.....	.....	.....
Paving Blocks	.....	.....	600	.....	.....	.....	.....	.....	.....	.....
Platinum	.....	.....	.....	280	375	36	12	.....	.....	.....
Quartz Crystals	.....	.....	.....	1,968	.....	.....	.....	.....	.....	.....

PRODUCTS BY VALUES—1900-1908.

PLACER COUNTY—Continued.

Substances.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Rubble	$19,800	$12,973	$50,435	$13,119	$13,077	$22,779	$5,100	$24,263	$20,477	.....
Silver	12,058	4,828	3,341	1,116	9,320	8,041	.....	3,358	2,194	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$861,728
Totals	$1,128,882	$1,025,184	$1,018,487	$800,985	$1,004,098	$798,644	$139,192	$719,550	$603,269	$8,100,019

PLUMAS COUNTY.

Copper	.....	.....	.....	$247	.....	$157	.....	.....	.....	.....
Gold	$365,210	$401,284	$380,686	424,112	$270,439	283,810	$229,350	$219,355	$254,737	.....
Limestone	.....	.....	.....	.....	.....	.....	.....	5,000	.....	.....
Manganese	10	40	.....	25	.....	.....	30	25	25	.....
Platinum	.....	.....	.....	.....	.....	.....	25	.....	.....	.....
Silver	4,159	2,508	517	510	464	530	1,055	948	3,560	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$75,575
Totals	$369,379	$403,832	$381,203	$424,894	$270,903	$284,497	$230,460	$225,328	$258,322	$2,924,393

RIVERSIDE COUNTY.

Asbestos	$1,250	$4,400	.....	.....	.....	.....	.....	.....	$100	.....
Bismuth	.....	.....	.....	.....	$2,400	.....	.....	.....	.....	.....
Brick	28,842	89,787	$114,165	$164,020	71,380	$69,195	$92,140	$102,000	74,086	.....
Clay	18,080	16,624	18,920	65,332	49,232	67,970	59,712	174,713	89,752	.....
Coal	15,000	7,000	3,000	.....	.....	.....	.....	.....	.....	.....
Copper	.....	.....	.....	.....	.....	.....	.....	100	2,816	.....
Gems	.....	.....	.....	.....	.....	2,500	2,500	50	.....	.....
Gold	149,292	109,747	47,947	13,453	7,488	35,690	4,432	3,836	5,884	.....

PRODUCTS BY VALUES—1900-1908.

RIVERSIDE COUNTY—Continued.

Substances.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Granite	$57,600	$51,900	$37,459	$48,975	$195,364	$92,300	$43,935	$134,522	$151,901	.....
Gypsum	.....	3,000	500	.....	.....	.....	.....	.....	.....	.....
Lead	.....	.....	.....	.....	.....	.....	.....	1,750	.....	.....
Lime	.....	18,000	.....	21,250	20,000	20,000	20,000	6,500	8,300	.....
Limestone	.....	.....	17,000	8,500	.....	.....	.....	.....	8,000	.....
Macadam	.....	.....	5,919	22,160	20,500	16,639	24,978	28,150	25,625	.....
Magnesite	.....	.....	.....	.....	.....	.....	.....	1,750	4,000	.....
Marble	.....	1,500	.....	1,500	2,500	2,500	.....	9,000	.....	.....
Paving Blocks	.....	.....	9,360	36,000	86,030	36,000	24,000	55,447	61,454	.....
Rubble	.....	.....	40,258	45,123	113,412	215,229	78,725	352,933	209,498	.....
Salt	8,000	12,000	20,000	20,000	15,000	.....	.....	.....	.....	.....
Sand Quartz	200	500	.....	.....	.....	.....	.....	.....	.....	.....
Silver	6,848	2,150	94	136	80	346	251	26	112	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$871,192
Totals	$285,112	$316,608	$334,622	$446,449	$583,386	$558,369	$350,673	$869,197	$641,528	$4,473,136

SACRAMENTO COUNTY.

Brick	$53,400	$62,180	$78,198	$120,000	$30,000	$135,000	$108,000	$128,624	$63,491	.....
Copper	.....	316	.....	.....	.....	.....	.....	.....	.....	.....
Gold	176,007	229,034	425,894	335,646	419,287	668,382	986,624	790,973	1,166,055	.....
Granite	3,139	2,882	136	2,222	4,458	1,614	1,779	4,625	44,151	.....
Macadam	14,157	6,763	19,064	17,225	21,457	20,326	17,426	9,736	147,649	.....
Natural Gas	11,750	.....	31,200	30,518	39,200	43,564	52,874	52,874	55,000	.....
Platinum	.....	.....	.....	.....	.....	700	200	.....	.....	.....
Rubble	.....	1,163	316	951	246	12,060	715	4,200	3,828	.....
Silver	986	544	330	234	75	206	3,640	2,034	1,621	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$245,747
Totals	$259,439	$302,882	$555,138	$506,796	$515,123	$881,852	$1,171,258	$993,066	$1,481,795	$6,913,096

PRODUCTS BY VALUES—1900-1908.

SAN BERNARDINO COUNTY.

Substances.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Borax	$999,350	$898,130	$2,198,600	$495,000	.....	.....	.....	.....	.....	.....
Brick	.....	15,000	1,800	4,000	$17,500	.....	$13,500	$15,555	$7,350	.....
Cement	121,000	159,842	273,600	157,000	.....	.....	.....	.....	.....	.....
Copper	297,600	7,875	41,008	7,852	17,270	$8,206	99,207	102,856	71,079	.....
Gems	20,000	20,000	11,600	10,000	.....	65,000	.....	.....	200	.....
Gold	247,949	399,693	394,936	381,197	595,828	473,893	354,830	158,676	180,511	.....
Granite	5,600	4,630	.....	.....	250	5,330	7,173	2,348	4,029	.....
Gypsum	.....	.....	.....	.....	.....	.....	.....	.....	70,000	.....
Lead	400	20	2,076	504	.....	.....	.....	1,822	17,218	.....
Lime	33,261	43,028	65,832	28,692	21,500	14,740	17,146	8,600	.....	.....
Limestone	7,067	76,710	51,578	64,613	42,575	51,395	35,990	139,188	97,466	.....
Macadam	15,000	3,300	6,100	71,000	7,000	9,000	1,825	375	176,696	.....
Marble	.....	.....	15,600	41,600	53,400	40,000	25,000	29,946	500	.....
Paving Blocks	2,500	7,400	19,000	14,650	10,000	28,000	16,000	28,125	29,688	.....
Rubble	42,657	151,447	167,300	181,311	141,686	104,867	13,478	116,494	20,829	.....
Salt	.....	.....	.....	.....	.....	.....	.....	.....	650	.....
Sandstone	.....	.....	.....	.....	2,000	.....	.....	.....	.....	.....
Silver	172,759	57,164	58,972	59,199	13,025	19,595	33,765	81,339	35,704	.....
Tungsten	.....	.....	.....	.....	.....	.....	5,500	.....	.....	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$3,372,338
Totals	$1,965,143	$1,844,239	$3,308,002	$1,516,618	$922,034	$820,026	$623,414	$685,924	$711,920	$15,769,658

SAN BENITO COUNTY.

Asphalt	.....	.....	.....	.....	$2,472	.....	.....	.....	.....	.....
Bituminous Rock	.....	$2,630	.....	.....	.....	.....	.....	.....	$2,830	.....
Gems	.....	.....	.....	.....	.....	.....	.....	.....	16,500	.....
Lime	$8,800	.....	.....	.....	.....	$15,000	.....	$8,453	.....	.....
Limestone	100	.....	.....	.....	.....	32,494	.....	.....	.....	.....
Macadam	13,000	10,164	$22,000	$23,200	16,500	32,500	$23,000	48,661	60,400	.....

PRODUCTS BY VALUES—1900-1908.

SAN BENITO COUNTY—Continued.

SUBSTANCES.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Mineral Water...	$3,750	$125	$150	$400	.....	$500	$3,120	$2,600	$2,600	.....
Quicksilver	180,000	242,300	306,081	344,251	$314,000	279,651	262,909	292,878	405,792	.....
Unapportioned ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	$130,000
Totals	$205,650	$255,219	$328,231	$367,851	$332,972	$360,145	$289,029	$352,592	$488,112	$3,099,801

SAN DIEGO COUNTY.

Brick	$3,261	$5,791	$3,440	$11,150	$23,700	$28,350	$34,900	$36,430	$16,719	.....
Copper	.....	.....	.....	.....	.....	750	284,500	2,659	.....	.....
Gems	500	20,000	150,000	100,000	136,000	66,000	.....	206,336	121,500	.....
Gold	335,937	413,320	338,877	461,516	334,697	109,712	.....	7,455	6,920	.....
Granite	9,900	22,400	13,175	16,308	7,851	10,250	10,250	23,650	10,000	.....
Lead	.....	.....	.....	.....	.....	.....	.....	52	.....	.....
Lithia Mica	11,000	27,500	31,880	27,300	25,000	276	.....	.....	.....	.....
Macadam	.....	.....	.....	.....	.....	.....	.....	.....	34,583	.....
Marble	.....	.....	.....	.....	.....	.....	.....	12,000	.....	.....
Mineral Water...	3,250	3,000	1,289	3,000	.....	.....	.....	2,000	11,772	.....
Rubble	14,403	6,887	14,175	42,597	200,192	16,507	49,738	28,500	2,539	.....
Salt	4,000	9,620	7,900	.....	.....	.....	5,000	55,000	60,000	.....
Silver	19,810	6,004	1,994	1,444	100	10	.....	35	86	.....
Unapportioned ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	$214,634
Totals	$402,061	$514,522	$562,730	$663,315	$727,540	$231,945	$384,388	$374,117	$264,119	$4,339,371

SAN FRANCISCO COUNTY.

Asphalt	.....	.....	.....	.....	.....	.....	.....	$60,000	$15,000	.....
Brick	.....	.....	$238,800	$294,326	$367,911	$310,685	$58,289	434,140	345,155	.....
Glass-Sand	.....	.....	.....	.....	.....	.....	10,500	.....	.....	.....

PRODUCTS BY VALUES—1900-1908.

SAN FRANCISCO COUNTY—Continued.

Substances.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Macadam	$1,500	$142,500	$110,000	$35,450	$17,500	$79,675	$54,250	$64,988	$41,111	.....
Rubble	56,900	14,447	46,300	473,010	314,720	65,682	52,000	32,285	54,148	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$30,000
Totals	$58,400	$156,947	$395,100	$802,786	$700,131	$456,042	$175,039	$591,413	$455,414	$3,821,272

SAN JOAQUIN COUNTY.

Asphalt	.....	.....	$2,730	.....	.....	.....	.....	.....	.....	.....
Brick	$20,000	$20,000	.....	.....	$45,000	$68,000	$49,500	$81,000	$189,560	.....
Clay	.....	.....	.....	.....	.....	.....	.....	.....	13,000	.....
Infusorial Earth	.....	.....	.....	$90	.....	.....	.....	.....	.....	.....
Manganese	.....	.....	.....	.....	.....	.....	.....	.....	1,080	.....
Natural Gas	19,862	60,456	67,868	44,399	47,635	53,915	55,115	52,725	49,194	.....
Rubble	.....	.....	.....	.....	.....	25,000	.....	.....	.....	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$214,835
Totals	$39,862	$80,456	$70,598	$44,489	$92,635	$146,915	$104,615	$133,723	$252,834	$1,180,962

SAN LUIS OBISPO COUNTY.

Asphalt	.....	$30,000	$40,000	.....	.....	.....	.....	$90,000	.....	.....
Bituminous Rock	$12,905	33,070	2,327	$7,572	.....	$6,344	$6,344	8,128	$21,875	.....
Brick	4,000	5,200	7,650	6,000	.....	3,200	2,400	16,000	12,900	.....
Gold	.....	300	2,399	1,840	$630	300	.....	316	.....	.....
Granite	.....	.....	.....	8,000	20,000	6,000	10,500	.....	.....	.....
Lime	.....	.....	.....	100	.....	.....	.....	600	.....	.....
Macadam	.....	.....	.....	.....	.....	.....	.....	3,000	.....	.....
Mineral Water	.....	6,000	800	.....	1,000	.....	.....	1,000	1,056	.....

PRODUCTS BY VALUES—1900-1908.

SAN LUIS OBISPO COUNTY—Continued.

SUBSTANCES.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Petroleum	.....	.....	.....	.....	.....	.....	.....	$16,845	$5,000	.....
Quicksilver	$23,886	$41,513	$147,215	$183,530	$176,616	$133,748	$128,152	95,743	36,648	.....
Rubble	44,835	.....	.....	47,583	16,000	15,000	.....	.....	900	.....
Sandstone	.....	.....	.....	2,791	45,000	25,000	25,000	.....	.....	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$218,205
Totals	$85,626	$116,083	$200,391	$257,416	$259,246	$189,592	$172,396	$231,632	$78,379	$1,808,966

SAN MATEO COUNTY.

Asphalt	.....	$255	.....	.....	.....	.....	.....	.....	.....	.....
Brick	$9,000	9,070	$8,000	$77,500	$56,436	$61,436	$67,000	$86,285	$63,231	.....
Clay	.....	.....	5,625	.....	.....	.....	.....	.....	.....	.....
Limestone	.....	.....	.....	.....	.....	.....	.....	.....	17,451	.....
Macadam	7,500	6,000	1,120	.....	15,666	.....	36,823	2,111	89,142	.....
Petroleum	.....	.....	.....	.....	6,000	.....	.....	.....	.....	.....
Rubble	.....	.....	300,000	150,000	98,200	75,000	75,000	.....	.....	.....
Salt	.....	400	16,000	25,000	62,500	67,500	44,920	56,000	60,900	.....
Totals	$16,500	$15,725	$330,745	$252,500	$238,802	$203,936	$223,743	$144,396	$230,724	$1,657,071

SANTA BARBARA COUNTY.

Asphalt	$105,500	$55,800	$12,590	$41,688	$190,000	$30,000	$250,000	$258,549	$70,000	.....
Brick	40,960	9,825	12,200	46,200	8,420	34,750	1,600	14,650	7,500	.....
Gold	.....	.....	200	.....	.....	725	250	.....	.....	.....
Granite	2,500	.....	.....	.....	.....	.....	.....	.....	.....	.....
Infusorial Earth	.....	.....	2,172	15,925	112,282	15,000	13,800	28,948	32,012	.....
Lime	.....	.....	.....	30,000	.....	.....	.....	.....	.....	.....
Limestone	3,602	.....	25,000	40,000	12,000	7,500	16,000	30,000	33,160	.....

PRODUCTS BY VALUES—1900-1908.

SANTA BARBARA COUNTY—Continued.

Substances.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Macadam	$162	.....	.....	.....	.....	$9,600	$272	.....	.....	.....
Mineral Water	10,350	$60,200	$60,200	$22,280	$18,249	21,450	10,450	$24,250	$4,932	.....
Natural Gas	2,966	438	375	320	1,500	.....	500	300	357,806	.....
Petroleum	165,138	113,385	181,313	149,640	445,560	1,413,600	1,237,250	4,166,661	4,423,794	.....
Quicksilver	.....	.....	.....	.....	.....	2,070	.....	2,289	.....	.....
Rubble	80,000	33,400	.....	4,395	.....	48,192	9,460	4,950	10,930	.....
Sandstone	117,260	27,100	21,500	34,240	3,600	18,330	25,230	37,566	6,545	.....
Silver	.....	.....	.....	.....	.....	.....	2	.....	.....	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$89,254
Totals	$528,438	$300,148	$315,550	$384,688	$791,611	$1,601,217	$1,564,814	$4,568,163	$4,946,679	$15,090,562

SANTA CLARA COUNTY.

Asphalt	.....	$255	.....	$132	.....	.....	.....	.....	.....	.....
Bituminous Rock	.....	.....	.....	47	.....	.....	.....	.....	.....	.....
Brick	$136,000	94,570	$178,662	188,284	$178,581	$204,357	$183,676	$255,424	$63,618	.....
Clay	6,000	.....	.....	.....	.....	1,050	1,500	.....	.....	.....
Granite	.....	.....	1,200	.....	.....	.....	.....	.....	.....	.....
Lime	.....	.....	.....	.....	.....	.....	.....	3,500	10,017	.....
Limestone	6,000	.....	.....	7,000	.....	.....	15,000	16,694	1,417	.....
Macadam	.....	917	.....	.....	12,000	.....	.....	.....	45,142	.....
Magnesite	253	300	.....	.....	.....	.....	.....	.....	.....	.....
Mineral Water	8,060	8,500	5,500	12,500	12,500	1,200	1,250	2,187	39,955	.....
Petroleum	.....	.....	.....	3,966	13,860	14,555	2,800	5,525	17,700	.....
Quicksilver	241,073	236,608	254,260	233,130	148,103	95,968	94,608	96,086	103,984	.....
Rubble	.....	.....	.....	100	.....	3,000	.....	.....	.....	.....
Sandstone	100,000	80,000	31,500	225,000	.....	150,000	.....	.....	.....	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$82,254
Totals	$497,386	$421,150	$471,122	$670,159	$365,044	$470,130	$298,834	$379,416	$281,833	$3,937,328

PRODUCTS BY VALUES—1900-1908.

SANTA CRUZ COUNTY.

SUBSTANCES.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Asphalt	.....	.....	$1,060	.....	.....	.....	.....	.....	.....	.....
Bituminous Rock.	$58,590	$30,654	41,084	$45,190	.....	$12,500	$38,860	$64,707	$85,123	.....
Clay	.....	30	.....	.....	.....	.....	.....	.....	28,400	.....
Granite	.....	.....	.....	140	.....	.....	.....	.....	336	.....
Lime	131,288	161,500	161,302	185,442	$306,775	199,974	347,190	241,179	119,996	.....
Limestone	1,213	3,595	1,850	2,725	.....	52,125	55,242	6,000	2,167	.....
Macadam	.....	.....	.....	20,750	1,750	1,750	3,500	14,800	19,736	.....
Rubble	.....	.....	.....	.....	1,175	.....	.....	.....	.....	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$812,373
Totals	$191,091	$195,779	$205,296	$254,247	$309,700	$296,349	$445,092	$326,686	$255,758	$3,292,371

SHASTA COUNTY.

Brick	$12,000	$12,000	$12,250	$17,500	$15,000	$14,000	$22,000	$33,000	$12,000	.....
Chrome	1,400	1,950	4,275	2,250	1,470	300	1,200	5,200	5,600	.....
Copper	4,166,735	4,881,048	2,496,731	2,171,197	3,439,974	1,688,614	4,338,121	5,568,873	4,642,976	.....
Gold	733,467	927,975	878,706	771,242	1,031,429	684,952	819,144	791,997	1,131,832	.....
Granite	.....	2,000	.....	.....	.....	.....	.....	.....	.....	.....
Iron Ore	.....	.....	.....	.....	.....	.....	.....	400	.....	.....
Lime	17,850	12,960	12,500	10,800	10,500	8,000	8,040	31,900	9,100	.....
Limestone	1,150	.....	3,600	5,400	.....	3,600	32,960	30,761	80,000	.....
Macadam	.....	.....	.....	1,500	.....	.....	.....	.....	25,000	.....
Mineral Water	5,784	7,644	7,645	12,000	.....	12,000	.....	5,500	20,000	.....
Pyrites	.....	.....	7,005	5,500	.....	.....	89,895	197,364	539,553	.....
Silver	635,640	891,994	306,887	203,991	399,660	167,548	434,483	370,211	517,596	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$41,120
Totals	$5,574,026	$6,737,571	$3,730,049	$3,201,680	$4,898,033	$2,579,014	$5,745,843	$7,084,706	$6,983,657	$46,575,699

PRODUCTS BY VALUES—1900-1908.

SIERRA COUNTY.

Substances.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Gold	$659,696	$575,427	$326,155	$310,770	$374,763	$517,303	$409,366	$483,904	$412,626	.....
Mineral Water	.....	.....	6,000	.....	.....	.....	.....	12,000	.....	.....
Silver	3,463	755	311	476	1,222	3,687	2,518	2,621	1,917	.....
Totals	$663,159	$576,182	$332,466	$311,246	$375,985	$520,990	$411,884	$498,525	$414,543	$4,104,980

SISKIYOU COUNTY.

Copper	.....	.....	$23	.....	.....	.....	.....	$39	.....	.....
Gold	$951,397	$886,043	906,989	$613,576	$892,685	$803,035	.....	398,017	$504,156	.....
Lead	.....	.....	.....	.....	.....	.....	.....	140	182	.....
Lime	.....	.....	.....	.....	.....	.....	.....	1,000	1,680	.....
Limestone	.....	.....	.....	.....	.....	.....	.....	300	.....	.....
Mineral Water	45,000	175,000	187,500	50,000	50,000	.....	.....	36,250	80,000	.....
Platinum	.....	.....	.....	.....	21	93	.....	.....	.....	.....
Rubble	.....	.....	.....	.....	.....	.....	.....	39,000	.....	.....
Sandstone	.....	.....	.....	.....	.....	1,250	$1,500	12,897	1,485	.....
Silver	13,986	6,408	233	22	1,230	2,499	.....	3,037	6,125	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$1,202,732
Totals	$1,010,383	$1,067,451	$1,094,745	$663,598	$943,936	$806,877	$1,500	$490,680	$593,629	$7,875,531

SOLANO COUNTY.

Brick	.....	.....	.....	.....	.....	.....	.....	$25,000	$7,000	.....
Cement	.....	.....	$150,000	$375,000	.....	.....	.....	.....	.....	.....
Granite	.....	.....	.....	49	.....	.....	.....	.....	.....	.....
Lime	$200	$1,000	.....	.....	.....	.....	.....	.....	.....	.....

PRODUCTS BY VALUES—1900-1908.

SOLANO COUNTY—Continued.

Substances.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Limestone	$1,600	$4,950	.....	.....	.....	$100,000	.....	.....	.....	.....
Macadam	17,900	1,200	$13,000	$17,725	$10,273	75,011	$135,077	$191,231	$518,883	.....
Mineral Water	4,000	4,450	4,000	4,000	4,000	4,000	4,000	4,000	11,600	.....
Natural Gas	.....	.....	.....	.....	.....	.....	.....	6,584	8,053	.....
Paving Blocks	1,000	1,000	1,250	3,500	525	3,562	4,988	2,978	7,008	.....
Quicksilver	.....	.....	1,890	4,100	15,080	18,518	19,272	24,422	33,294	.....
Rubble	.....	.....	.....	240	315	.....	3,422	7,937	1,428	.....
Salt	.....	.....	.....	.....	.....	.....	.....	600	2,800	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$5,235,519
Totals	$24,700	$12,600	$170,140	$404,614	$30,193	$201,091	$166,759	$262,752	$590,066	$7,098,434

SONOMA COUNTY.

Brick	$2,360	$1,200	$1,200	$1,440	$1,750	$4,000	$115,000	$133,479	$83,000	.....
Clay	.....	.....	.....	.....	.....	.....	.....	10,700	3,000	.....
Gems	.....	.....	.....	.....	.....	.....	300	50	.....	.....
Granite	.....	9,800	9,351	.....	.....	.....	.....	.....	566	.....
Graphite	.....	4,480	1,680	.....	.....	.....	.....	.....	.....	.....
Lime	.....	.....	.....	.....	2,250	.....	.....	2,600	.....	.....
Macadam	.....	10,226	30,000	9,864	10,350	140,545	29,774	20,149	57,919	.....
Magnesite	.....	1,225	455	.....	.....	.....	.....	1,250	180	.....
Mineral Paint	.....	.....	105	320	.....	.....	.....	.....	.....	.....
Mineral Water	35,000	17,691	9,100	4,000	4,400	4,000	4,000	4,200	1,000	.....
Paving Blocks	20,275	32,675	82,227	80,492	65,197	66,785	128,444	112,797	228,630	.....
Quicksilver	99,500	95,850	64,685	98,676	102,829	97,041	75,555	21,369	24,939	.....
Rubble	.....	.....	.....	577	400	6,500	.....	.....	20,850	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$15,000
Totals	$157,135	$173,174	$198,803	$195,369	$187,176	$318,871	$353,073	$306,594	$420,084	$2,325,279

PRODUCTS BY VALUES—1900-1908.

STANISLAUS COUNTY.*

* U. S. Geological Survey reports gold and silver for Merced and Stanislaus counties together.

Substances.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Brick	.....	.....	.....	.....	.....	.....	.....	.....	$7,000	.....
Copper	.....	$12,494	$18,676	$15,080	$931	.....	.....	.....	.....	.....
Gold*	$21,212	15,700	.....	52,869	50,000	$50,000	.....	$3,364	.....	.....
Mineral Paint	193	375	350	2,400	1,600	2,125	$1,720	1,720	2,000	.....
Platinum	.....	.....	.....	.....	20	.....	.....	.....	.....	.....
Rubble	.....	.....	.....	.....	.....	.....	.....	.....	74,000	.....
Silver*	.....	.....	.....	256	265	240	.....	28	.....	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$82,317
Totals	$21,405	$29,169	$19,026	$70,605	$52,816	$52,365	$1,720	$5,112	$83,000	$417,535

SUTTER COUNTY.

Macadam	.....	.....	.....	.....	.....	.....	.....	.....	$5,000	$5,000

TEHAMA COUNTY.

Brick	$2,200	$2,000	$3,500	$4,500	$3,500	$5,000	$5,600	$3,200	$3,000	.....
Mineral Water	.....	4,000	.....	2,500	.....	4,000	4,000	55,000	2,000	.....
Salt	.....	.....	.....	.....	.....	.....	.....	.....	300	.....
Totals	$2,200	$6,000	$3,500	$7,000	$3,500	$9,000	$9,600	$58,200	$5,300	$104,300

TRINITY COUNTY.

Copper	.....	$761	.....	.....	.....	.....	.....	.....	.....	.....
Gold	$571,605	684,683	$719,992	$607,728	$574,814	$690,844	$560,843	$535,316	$602,944	.....
Granite	4,535	5,500	.....	75	.....	.....	.....	.....	.....	.....
Platinum	.....	.....	468	200	275	450	130	.....	.....	.....
Quicksilver	105,982	58,668	10,251	11,156	3,864	13,917	6,059	3,739	3,804	.....

PRODUCTS BY VALUES—1900-1908.

TRINITY COUNTY—Continued.

SUBSTANCES.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Silver	$16,567	$2,668	$550	$2,085	$135	$3,044	$2,981	$2,399	$4,269	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$110,975
Totals	$698,689	$752,280	$731,261	$621,244	$579,088	$708,255	$570,013	$541,454	$611,017	$5,924,276

TULARE COUNTY.

Brick	$6,100	$8,600	$27,000	$9,500	$10,000	$16,000	$12,000	$20,000	$18,000	.....
Gems	.....	.....	500	500	.....	5,000	209,790	.....	62,250	.....
Gold	10,445	14,616	11,648	9,215	1,100	2,300	20	.....	.....	.....
Granite	3,000	18,000	4,000	2,260	16,000	9,000	9,000	.....	.....	.....
Gypsum	88	.....	.....	.....	.....	.....	.....	2,200	.....	.....
Magnesite	1,500	28,210	19,250	19,600	9,100	.....	.....	21,420	52,642	.....
Rubble	.....	.....	.....	100	.....	.....	.....	.....	.....	.....
Silver	433	100	.....	.....	.....	13	.....	.....	.....	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$50,103
Totals	$21,566	$69,526	$62,398	$41,175	$36,200	$32,313	$230,810	$69,826	$132,892	$746,814

TUOLUMNE COUNTY.

Chrome	.....	.....	.....	.....	.....	.....	$1,379	.....	.....	.....
Copper	.....	.....	$17,920	.....	.....	.....	.....	.....	.....	.....
Gold	$1,596,891	$1,670,368	1,791,829	$1,732,572	$1,563,907	$1,291,726	1,039,675	$806,876	$798,752	.....
Granite	.....	.....	.....	14,020	9,700	9,700	9,700	.....	.....	.....
Lead	.....	16	.....	.....	.....	.....	.....	.....	.....	.....
Lime	.....	.....	.....	1,600	.....	1,000	1,000	125,000	69,500	.....
Limestone	.....	.....	.....	.....	.....	.....	.....	.....	6,500	.....
Marble	.....	.....	14,000	28,875	28,750	66,000	46,000	60,120	47,165	.....
Silver	62,367	39,787	6,580	13,989	12,963	21,348	8,476	6,453	11,732	.....
Totals	$1,659,258	$1,710,171	$1,830,329	$1,791,056	$1,615,320	$1,389,774	$1,106,230	$998,449	$933,649	$13,034,236

PRODUCTS BY VALUES—1900-1908.

VENTURA COUNTY.

SUBSTANCES.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Grand Total.
Asphalt	$31,670	$30,945	$370	$13,368	$38,028	$30,000	$37,000	.....	.....	.....
Borax	.....	60,000	.....	140,000	.....	.....	.....	.....	.....	.....
Brick	1,700	.....	.....	12,900	.....	10,400	11,650	$12,800	$1,500	.....
Clay	.....	.....	.....	.....	.....	45	.....	.....	1,680	.....
Gold	2,562	4,183	2,012	1,087	2,700	1,200	.....	.....	.....	.....
Granite	28,629	.....	.....	.....	.....	.....	.....	.....	.....	.....
Macadam	.....	.....	.....	2,100	.....	.....	.....	.....	6,400	.....
Mica	.....	.....	2,500	3,800	3,000	.....	.....	.....	.....	.....
Natural Gas	.....	.....	.....	.....	2,700	5,000	1,000	2,278	4,531	.....
Petroleum	398,700	236,028	455,000	517,611	465,682	236,578	155,500	211,334	217,219	.....
Rubble	6,550	16,764	22,500	23,000	31,227	60,490	.....	20,880	9,006	.....
Sandstone	6,250	2,650	1,600	900	3,500	1,380	792	.....	.....	.....
Silver	.....	.....	4	.....	.....	.....	.....	.....	.....	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$830,853
Totals	$476,161	$350,570	$483,986	$714,766	$546,837	$345,093	$205,492	$247,292	$240,336	$4,441,386

YOLO COUNTY.

Sandstone	$1,760	$2,300	$450	$144	$720	$200	$204	$350	$1,150	$7,278

YUBA COUNTY.

Brick	.....	.....	.....	.....	$3,000	.....	.....	.....	$10,000	.....
Clay	.....	.....	.....	.....	750	$80	.....	.....	.....	.....
Gold	$280,366	$188,908	$155,630	$125,830	139,528	324,135	.....	$1,766,770	2,034,486	.....
Macadam	.....	.....	.....	.....	.....	.....	.....	.....	5,750	.....
Mineral Water	.....	.....	.....	.....	.....	800	$800	720	.....	.....
Silver	4,625	846	2	41	.....	369	.....	6,187	9,997	.....
Unapportioned	.....	.....	.....	.....	.....	.....	.....	.....	.....	$565,004
Totals	$284,631	$189,754	$155,632	$125,871	$143,278	$325,384	$800	$1,773,677	$2,060,233	$5,624,304

SUMMARY BY COUNTIES—VALUE OF MINERAL PRODUCTS, 1900-1908.*

Alpine	$55,735	Mariposa	$4,013,995	Santa Clara	$3,937,328
Alameda	7,278,702	Mendocino	148,370	Santa Cruz	3,292,371
Amador	18,002,204	Merced	247,692	Shasta	46,575,699
Butte	17,548,233	Mono	4,551,875	Sierra	4,104,980
Calaveras	20,155,558	Monterey	684,975	Siskiyou	7,875,531
Colusa	1,856,798	Napa	6,188,251	Solano	7,098,434
Contra Costa	2,558,624	Nevada	22,657,742	Sonoma	2,325,279
Del Norte	85,107	Orange	9,546,336	Stanislaus	417,535
El Dorado	4,088,293	Placer	8,100,019	Sutter†	5,000
Fresno	19,113,606	Plumas	2,924,393	Tehama	104,300
Humboldt	670,110	Riverside	4,473,136	Trinity	5,924,276
Imperial	38,272	Sacramento	6,913,096	Tulare	746,814
Inyo	3,175,380	San Benito	3,099,801	Tuolumne	13,034,236
Kern	45,755,800	San Bernardino	15,769,658	Ventura	4,441,386
Kings	174,400	San Diego	4,339,371	Yolo	7,278
Lake	2,260,957	San Francisco	3,821,272	Yuba	5,624,304
Lassen	486,638	San Joaquin	1,180,962		
Los Angeles	25,580,851	San Luis Obispo	1,808,966	Total	$395,491,878
Madera	2,217,317	San Mateo	1,657,071		
Marin	1,942,045	Santa Barbara	15,090,562		

* Including amounts heretofore unapportioned for period.
† Sutter County first reports production in 1908.

CORPORATION AND MINING LAWS.

CHAPTER CDXXXII.

An act to repeal Title XI of Part IV of Division First of the Civil Code and each and every section of said title, and to substitute a new Title XI to take the place thereof in said code, relating to mining corporations.

[Approved March 21, 1905.]

The people of the State of California, represented in senate and assembly, do enact as follows:

SECTION 1. Title XI of Part IV of Division First of the Civil Code and each and every section of said title are hereby repealed, and a new Title XI is substituted in place thereof in said code, to read as follows:

TITLE XI.

MINING CORPORATIONS.

SEC. 586. Transfer agencies.
587. Stock issued at transfer agencies.
587*a*. Consolidation of mining corporations.
588. Books and balance sheets to be kept by secretary. Stockholders' right to inspect.
589. Right of stockholders to visit mine with expert.
590. Liability of presidents and directors.

§ 586. Any corporation organized in this state for the purpose of mining or carrying on mining operations in or without this state, may establish and maintain agencies in other states of the United States, for the transfer and issuing of their stock; and a transfer or issue of the same at any such transfer agency, in accordance with the provisions of its by-laws, is valid and binding as fully and effectually for all purposes as if made upon the books of such corporation at its principal office within this state. The agencies must be governed by the by-laws and the directors of the corporation.

§ 587. All stock of any such corporation, issued at a transfer agency, must be signed by the president and secretary of the corporation, and countersigned at the time of its issue by the agent having charge of the transfer agency. No stock must be issued at a transfer agency unless the certificate of stock, in lieu of which the same is issued, is at the time surrendered for cancellation.

§ 587*a*. It is lawful for two or more corporations formed, or that may hereafter be formed, under the laws of this state, for mining purposes, which own or possess mining claims or lands adjoining each other, or lying in the same vicinity, to consolidate their capital stock, debts, property, assets, and franchises, in such manner and upon such terms as may be agreed upon by the respective boards of directors or trustees of such corporations so desiring to consolidate their interests; but no such consolidation must take place without the written consent of the stockholders representing two thirds of the capital stock of each corporation, and no such consolidation can, in any way, relieve such corporations, or the stockholders thereof, from any and all just liabilities; and in case of such consolidation, due notice of the same must be given, by advertising, for one month, in at least one newspaper in the county where the said mining property is situated, if there is one published therein, and also in one newspaper published in the

county where the principal place of business of any of said corporation is. And when the consolidation is completed, a certificate thereof, containing the manner and terms of such consolidation, must be filed in the office of the county clerk of the county in which the original certificate of incorporation of each of said corporations is filed, and a copy thereof must be filed in the office of the secretary of state; such certificate must be signed by a majority of each board of trustees or directors of the original corporations, and it is their duty to call, within thirty days after the filing of such certificate, a meeting of the stockholders of all of said corporations so consolidated, to elect a board of trustees or directors for the consolidated corporation, for the year thence next ensuing; and to cause notice of the time and place fixed for such meeting to be mailed to each stockholder of each of such corporations at his last known place of residence or business at least ten days before the time fixed for such meeting. The said certificate must also contain all the requirements prescribed by section two hundred and ninety.

§ 588. It is the duty of the secretary of every corporation formed for the purpose of mining, or conducting mining in California, whether such corporation be formed and organized under the laws of the State of California or of any other state, territory, or foreign country, to keep at some place within the State of California an office and in such office to keep a complete set of books showing all receipts and expenditures of such corporation, the sources of such receipts, and the objects of such expenditures, and also all transfers of stock. All books and papers must, at all times during business hours, be open to the inspection of any stockholder. He is entitled to be accompanied by an expert, and to make copies or extracts from any such books or papers. He may, at reasonable hours, examine such mining property, accompanied by an expert, take samples, and make such other examination as he may deem necessary. It is the duty of the directors, on the second Monday of each and every month, to cause to be made an itemized account or balance sheet for the previous month, embracing a full and complete statement of all disbursements and receipts, showing from what sources such receipts were derived, and to whom and for what object or purpose such disbursements or payments were made; also all indebtedness or liabilities incurred or existing at the time, and for what the same were incurred, and the balance of money, if any, on hand. Such account or balance sheet must be verified under oath by the president and secretary, and posted in some conspicuous place in the office of the company. It is the duty of the superintendent, on the first Monday of each month, to file with the secretary an itemized account, verified under oath, showing all receipts and disbursements made by him for the previous month, and for what said disbursements were made. Such account must also contain a verified statement showing the number of men employed under him, and for what purpose, and the rate of wages paid to each. He must attach to such account a full and complete report, under oath, of the work done in said mine, the amount of ore extracted, from what part of mine taken, the amount sent to mill for reduction, its assay value, the amount of bullion received, the amount of bullion shipped to the office of the company or elsewhere, and the amount, if any, retained by the superintendent. It is his duty to forward to the office of the company a full report, under oath, of all discoveries of ores or mineral-bearing quartz made in said mine, whether by boring, drifting, sinking, or otherwise, together with the assay value thereof. All accounts, reports, and correspondence from the superintendent must be kept in some conspicuous place in the office of said company, open to the inspection of all stockholders.

§ 589. Any stockholder of a corporation formed under the laws of this state for the purpose of mining, is entitled to visit, accompanied by his expert, and examine the mine or mines owned by such corporation, and every part thereof, at any time he may see fit; and when such stockholder applies to the president of such corporation, he must im-

mediately cause the secretary thereof to issue and deliver to such applicant an order, under the seal of the corporation, directed to the superintendent, commanding him to show and exhibit such parts of said mine or mines as the party named in said order may desire to visit and examine. It is the duty of the superintendent, on receiving such order, to furnish such stockholder every facility for making a full and complete inspection of said mine or mines, and of the workings therein, and to accompany said stockholder either in person, or to furnish some person familiar with said mine or mines to accompany him in his visit to and through such mine or mines, and every part thereof. If the superintendent fails to obey such order, such stockholder is entitled to recover, in any court of competent jurisdiction, against the corporation, the sum of one thousand dollars, and traveling expenses to and from the mine, as liquidated damages, together with costs of suit. In case of such refusal, it is the duty of the directors of the corporation forthwith to remove the officer so refusing, and thereafter he must not be employed directly or indirectly by the corporation, nor must any salary be paid to him.

§ 590. In case of the refusal or neglect of the president to cause to be issued by the secretary the order mentioned in section five hundred and eighty-nine, such stockholder is entitled to recover against said president the sum of one thousand dollars and costs, as provided in the last section. If the directors fail to have the reports and accounts current made and posted as provided in section five hundred and eighty-eight, they are liable, either severally or jointly, to an action by any stockholder complaining thereof, and on proof of such refusal or failure, he may recover judgment for actual damages sustained by him, with costs of suit. Each of such defaulting directors is also liable to removal for such neglect.

CORPORATION LICENSE TAX LAW.

[As approved March 20, 1905; amended, approved June 13, 1906; amended, approved March 19, 1907; amended, approved March 20, 1907; amended, approved March 19, 1909.]

SECTION 1. No corporation heretofore or hereafter incorporated under the laws of this state, or of any other state, shall do or attempt to do business by virtue of its charter or certificate of incorporation, in this state, without a state license therefor. [Amended, approved June 13, 1906.]

SEC. 2. It shall be the duty of every corporation incorporated under the laws of this state, and of every foreign corporation now doing business, or which shall hereafter engage in business in this state, to procure annually from the secretary of state a license authorizing the transaction of such business in this state, and shall pay therefor a license tax as follows:

When the authorized capital stock of the corporation does not exceed ten thousand dollars ($10,000) the tax shall be ten dollars ($10.00); when the authorized capital stock exceeds ten thousand dollars ($10,000) but does not exceed twenty thousand dollars ($20,000) the tax shall be fifteen dollars ($15.00); when the authorized capital stock exceeds twenty thousand dollars ($20,000) but does not exceed fifty thousand dollars ($50,000) the tax shall be twenty dollars ($20.00); when the authorized capital stock exceeds fifty thousand dollars ($50,000) but does not exceed one hundred thousand dollars ($100,000) the tax shall be twenty-five dollars ($25.00); when the authorized capital stock exceeds one hundred thousand dollars ($100,000) but does not exceed two hundred and fifty thousand dollars

($250,000) the tax shall be fifty dollars ($50.00); when the authorized capital stock exceeds two hundred and fifty thousand dollars ($250,000) but does not exceed five hundred thousand dollars ($500,000) the tax shall be seventy-five dollars ($75.00); when the authorized capital stock exceeds five hundred thousand dollars ($500,000) but does not exceed two million dollars ($2,000,000) the tax shall be one hundred dollars ($100.00); when the authorized capital stock exceeds two million dollars ($2,000,000) but does not exceed five million dollars ($5,000,000) the tax shall be two hundred dollars ($200.00); when the authorized capital stock exceeds five million dollars ($5,000,000) the tax shall be two hundred and fifty dollars ($250.00).

Said license tax or fee shall be due and payable on the first day of July of each and every year to the secretary of state who shall pay the same into the state treasury. If not paid on or before the hour of four o'clock P. M. of the first day of September next thereafter, the same shall become delinquent and there shall be added thereto, as a penalty for such delinquency, the sum of ten dollars.

The license tax or fee hereby provided authorizes the corporation to transact its business during the year or for any fractional part of such year in which such license tax or fee is paid. "Year," within the meaning of this act, means from and including the first day of July to and including the thirtieth day of June next thereafter. [Amended, approved March 19, 1907.]

SEC. 2*a*. At the time of filing a certified copy of articles of incorporation of any corporation when filed on or between the first day of July and the thirtieth day of September, in any year, there shall be paid, in addition to all other fees required by law to be paid to the secretary of state, the full amount of the license tax provided to be paid in section two of this act; when filed on or between the first day of October and the thirty-first day of December, in any year, a sum equal to three fourths of the license tax provided for in section two of this act shall be paid; when filed on or between the first day of January and the thirty-first day of March, in any year, a sum equal to one half of such license tax provided for in section two of this act shall be paid, and when filed on or between the first day of April and the thirtieth day of June, in any year, a sum equal to one fourth of such license tax provided for in section two of this act shall be paid. Upon receipt of such full or fractional license tax the secretary of state shall issue a license receipt for the full or for the fractional part of the then current fiscal year. [Amended, approved March 19, 1909; in effect July 1, 1909.]

SEC. 3. The secretary of state shall, on or before the fifteenth day of September in each year, report to the governor of the state a list of all corporations which have become delinquent, as provided in section two of this act, and the governor shall forthwith issue his proclamation, declaring under this act that the charters of such delinquent domestic corporations will be forfeited and the right of such foreign corporations to do business in this state will be forfeited unless payment of said license tax, together with the penalty for such delinquency, as hereinbefore provided, be made to the secretary of state on or before the hour of four o'clock P. M. of the thirtieth day of November next following. [Amended, approved June 13, 1906.]

SEC. 4. Said proclamation shall be filed immediately in the office of the secretary of state, and said secretary of state shall immediately cause a copy of said proclamation to be published in one issue of each of two daily newspapers to be selected by the governor. [Amended, approved June 13, 1906.]

SEC. 5. At the hour of four o'clock P. M. of the thirtieth day of November each year the charters of all delinquent domestic corporations which have failed to pay the said license tax, together with said penalty for such delinquency, shall be forfeited to the State of California, and the right of all delinquent foreign corporations to do

business in this state which have failed to pay said license tax, together with the penalty for such delinquency, shall be likewise forfeited. [Amended, approved June 13, 1906.]

SEC. 6. Any corporation which failed to pay the license tax and penalty required by the act, or any amendment thereof, and of which this is amendatory, may pay all the said license taxes and penalties prescribed by section one of said act and the amendments thereto, and the license taxes and penalties that would have accrued if such corporation had not forfeited its charter or right to do business and any such corporation making such payment shall be relieved from the forfeiture prescribed by the act of which this act is amendatory, and all persons exercising the powers of any such corporation making such payment shall be relieved from the provisions of section nine of said act of which this act is amendatory, and the secretary of state shall immediately after the first day of December, 1909, transmit to the county clerk of each county in this state a list of the corporations so paying pursuant to the provisions of this section, which list shall be by said county clerk filed in his office; *provided*, the rehabilitation of a corporation under the provisions of this act shall be without prejudice to any action, defense or right which accrued by reason of the original forfeiture; *and provided*, that in case the name of any corporation which has suffered the forfeiture prescribed by the act of which this act is amendatory, or a name so closely resembling the name of such corporation as will tend to deceive, has been adopted by any other corporation since the date of said forfeiture then said corporation having suffered said forfeiture shall be relieved therefrom pursuant to the terms of this section of this act only upon the adoption by said corporation seeking revivor of a new name, and in such case nothing in this act contained shall be construed as permitting such corporation to be revived or carry on any business under its former name; and such corporation shall have the right to use its former name or take such new name only upon filing an application therefor with the secretary of state and upon the issuing of a certification to such corporation by the secretary of state setting forth the right of such corporation to take such new name or use its former name as the case may be; *provided, however*, that the secretary of state shall not issue any certificate permitting any corporation to take or use the name of any corporation heretofore organized in this state and which has not suffered the forfeiture prescribed by the act of which this act is amendatory or to make or use a name so closely resembling the name of such corporation heretofore organized in this state, as will tend to deceive. The provisions of title nine, part three of the Code of Civil Procedure in so far as they conflict with this section of this act are not applicable to corporations seeking revivor under this act. [Amended, approved March 19, 1909; in effect immediately.]

SEC. 7. All educational, religious, scientific and charitable corporations, and all corporations which are not organized for pecuniary profit, are exempt from the provisions of this act. [Amended, approved June 13, 1906.]

SEC. 8. On or before the thirty-first day of December of each year the secretary of state shall make a list of all domestic corporations whose charters have been so forfeited and of all foreign corporations whose right to do business in this state has been so forfeited, and shall transmit a certified copy thereof to each county clerk in this state, who shall file the same in his office. [Amended, approved June 13, 1906.]

SEC. 9. It shall be unlawful for any corporation, delinquent under this act, either domestic or foreign, which has not paid the license tax or fee, together with the penalty for such delinquency, as in this act prescribed, to exercise the powers of such corporation, or to transact any business in this state, after the thirtieth day of November next following the delinquency. Each and every person who exercises any of the powers of a corporation so delinquent, either domestic or foreign, which has not paid the license tax, together with the penalty

for such delinquency, or who transacts any business for or in behalf of any such corporation, after the thirtieth day of November next following the delinquency, shall be guilty of a misdemeanor, and upon conviction thereof shall be punished by a fine of not less than one hundred dollars, and not exceeding one thousand dollars, or by imprisonment in the county jail not less than fifty days nor more than five hundred days, or by both such fine and imprisonment. [Amended, approved June 13, 1906.]

SEC. 10*a*. In all cases of forfeiture under the provisions of this act, the directors or managers in office of the affairs of any domestic corporation, whose charter may be so forfeited, or of any foreign corporation whose right to do business in this state may be so forfeited, are deemed to be trustees of the corporation and stockholders or members of the corporation whose power or right to do business is forfeited and have full power to settle the affairs of the corporation and to maintain or defend any action or proceeding then pending in behalf of or against any of said corporations, or to take such legal proceedings as may be necessary to fully settle the affairs of said corporation, and such directors or managers, as such trustees, may be sued in any of the courts of this state by any person having a claim against any of said corporations; *provided, always*, that no action pending against any corporation shall abate thereby, but may be prosecuted to final judgment; the same may be enforced by execution with the same force and effect and in like manner as though no forfeiture had occurred; *and provided further*, that where judgment has been entered against any corporation prior to forfeiture under this act, that notwithstanding execution may be issued thereon and the property of said corporation, or which may come into the hands of any trustees for, it may be levied upon, seized and sold to satisfy the same with like force and effect as though such forfeiture has not occurred. [Amended, approved March 20, 1907.]

PROTECTION OF STOCKHOLDERS.

CHAPTER 583.

An act to amend an act entitled "An act to protect stockholders and persons dealing with corporations in this state," approved March 29, 1878, and all acts amendatory thereof, and to repeal all laws in conflict therewith.

[Approved March 22, 1905.]

The people of the State of California, represented in senate and assembly, do enact as follows:

SECTION 1. Any superintendent, director, secretary, manager, agent, or other officer, of any corporation formed or existing under the laws of this state, or transacting business in the same, and any person pretending or holding himself out as such superintendent, director, secretary, manager, agent, or other officer, who shall willfully subscribe, sign, endorse, verify, or otherwise assent to the publication, either generally or privately, to the stockholders or other persons dealing with such corporation or its stock, any untrue or willfully and fraudulently exaggerated report, prospectus, account, statement of operations, values, business, profits, expenditures or prospects, or other paper or document intended to produce or give, or having a tendency to produce or give, to the shares of stock in such corporation a greater value or less apparent or market value than they really possess, or with the intention of defrauding any particular person or persons, or the public, or persons generally, shall be deemed guilty of a felony, and on conviction thereof shall be punished by imprisonment in state prison, or a county jail, not exceeding two years, or by fine not exceeding five thousand dollars, or by both.

SEC. 2. All acts and parts of acts in conflict with this act are hereby repealed.

HOURS OF EMPLOYMENT.

CHAPTER 181.

An act regulating the hours of employment in underground mines and in smelting and reduction works.

[Approved March 10, 1909.]

The people of the State of California, represented in senate and assembly, do enact as follows:

SECTION 1. That the period of employment for all persons who are employed or engaged in work in underground mines in search of minerals, whether base or precious, or who are engaged in such underground mines for other purposes, or who are employed or engaged in other underground workings whether for the purpose of tunneling, making excavations or to accomplish any other purpose or design, or who are employed in smelters and other institutions for the reduction or refining of ores or metals, shall not exceed eight hours within any twenty-four hours, and the hours of employment in such employment or work day shall be consecutive, excluding, however, any intermission of time for lunch or meals; provided that, in the case of emergency where life or property is in imminent danger, the period may be a longer time during the continuance of the exigency or emergency.

SEC. 2. Any person who shall violate any provision of this act, and any person who as foreman, manager, director or officers of a corporation, or as the employer or superior officer of any person, shall command, persuade or allow any person to violate any provision of this act, shall be guilty of a misdemeanor and upon conviction shall be punished by a fine of not less than fifty dollars ($50.00) nor more than three hundred dollars ($300.00), or by imprisonment of not more than three months. And the court shall have discretion to impose both fine and imprisonment as herein provided.

SEC. 3. All acts and parts of acts inconsistent with this act are hereby repealed.

SALE OF MINING CLAIMS, ETC.

CHAPTER 305.

An act to amend section 1557 of the Code of Civil Procedure, relating to the sale of property of an estate, and to add a new section to said Code of Civil Procedure to be numbered 1580 providing for a procedure for the sale of property belonging to an estate.

[Approved March 19, 1909.]

The people of the State of California, represented in senate and assembly, do enact as follows:

SECTION 1. Section 1577 of the Code of Civil Procedure is hereby amended to read as follows:

§ 1577. Whenever, in any estate now being administered, or that may hereafter be administered, it shall appear to the superior court, or a judge thereof, to be for the advantage of the estate to raise money upon a note or notes to be secured by a mortgage of the real property of any decedent, or of a minor, or an incompetent person, or any part thereof, or to make a lease of said realty, or any part thereof, or to agree to sell a claim, or mining claims, or real property worked as a mine, the court or judge, as often as occasion therefor shall arise in the administration of any estate, may on a petition, notice, and hearing as provided in this article, authorize, empower and direct the executor or administrator, or guardian of such minor or incompetent person, to mortgage such real estate, or any part thereof, and to execute a note or notes to be secured by such mortgage, or to lease such real estate, or any part thereof, or to enter into an agreement to sell such real estate, or any part thereof.

SEC. 2. A new section to be numbered 1580 is hereby added to the Code of Civil Procedure of the State of California, to read as follows:

§ 1580. To obtain an order to enter into an agreement for the sale of a mining claim, or claims, or real property, worked as a mine, the proceedings to be taken and the effect thereof shall be as follows:

First—The executor, administrator, guardian of a minor, or of an incompetent person, or any person interested in the estate of such decedents, minors, or incompetent persons, may file a verified petition showing:

1. The advantage or advantages that may accrue to the estate from entering into such an agreement.

2. A general description of the property affected by said agreement.

3. The terms and general conditions of the proposed agreement.

4. The names of the legatees and devisees, if any, and of the heirs of the deceased, or of the minor, or of the incompetent person, so far as known to the petitioner.

Second—Upon filing such petition an order shall be made by the court or judge requiring all persons interested in the estate to appear before the court or judge, at a time and place specified, not less than two or more than four weeks thereafter, then and there to show cause why an agreement for the sale of the realty should not be made, and referring to the petition on file for further particulars.

Third—The order to show cause must be personally served on the persons interested in the estate at least ten days before the time appointed for hearing the petition, or it may be published for four successive weeks in a newspaper of general circulation in the county if there be one, and if there is none then in some newspaper of general circulation in the county.

Fourth—At the time and place appointed to show cause, or at such other time and place to which the hearing may be postponed the power to make all needful postponements being hereby vested in the court or jury, the court or judge having first received satisfactory proof of personal service or publication of the order to show cause, must proceed to hear the petition, and any objections that may have been filed or presented thereto. If, after a full hearing, the court or judge is satisfied that it will be for the advantage of the estate to enter into the proposed agreement for the sale of the mines or real estate, an order must be made authorizing, empowering and directing the executor, administrator or the guardian to make such agreement. The order may prescribe the terms and conditions of such agreement.

Fifth—After the making of the order to enter into said agreement, the executor, administrator or guardian of a minor or of an incompetent person shall execute, acknowledge and deliver an agreement containing the conditions specified in the order, setting forth in the agreement that it is made by authority of the order, and giving the date of such order. A certified copy of the order shall be recorded in the office of the county recorder of every county in which the land affected by the agreement or any portion thereof is situated.

LOCATION OF MINING CLAIMS, MILL SITES, AND ASSESSMENT WORK.

CHAPTER 205.

An act to amend the Civil Code of California by adding a new title thereto, to be numbered title X, in part IV of division second, consisting of sections 1426, 1426a, 1426b, 1426c, 1426d, 1426e, 1426f, 1426g, 1426h, 1426i, 1426j, 1426k, 1426l, 1426m, 1426n, 1426o, 1426p, 1426q, 1426r, and 1426s, providing for the manner of locating lode and placer mining claims, tunnel rights, mill sites, and prescribing the character and amount of assessment work on mining claims, and providing for proofs of such work, and for the recordation of location notices, and proof of labor, and for the enforcement of contributions from delinquent co-owners of mining claims, and prescribing the duties of county recorders respecting the recording of location notices of, and proofs of labor on, mining claims, tunnel rights, and

mill sites, and the fees to be charged therefor, and repealing acts in conflict herewith.

[Approved March 13, 1909.]

The people of the State of California, represented in senate and assembly, do enact as follows:

SECTION 1. The Civil Code of the State of California is hereby amended by adding a new title thereto, to be numbered title X, in part IV of second division, consisting of sections 1426, 1426*a*, 1426*b*, 1426*c*, 1426*d*, 1426*e*, 1426*f*, 1426*g*, 1426*h*, 1426*i*, 1426*j*, 1426*k*, 1426*l*, 1426*m*, 1426*n*, 1426*o*, 1426*p*, 1426*q*, and 1426*r*, to read as follows:

§ 1426. Any person, a citizen of the United States, or who has declared his intention to become such, who discovers a vein or lode of quartz, or other rock in place, bearing gold, silver, cinnabar, lead, tin, copper, or other valuable deposit, may locate a claim upon such vein or lode, by defining the boundaries of the claim, in the manner hereinafter described, and by posting a notice of such location, at the point of discovery, which notice must contain:

First—The name of the lode or claim.

Second—The name of the locator or locators.

Third—The number of linear feet claimed in length along the course of the vein, each way from the point of discovery, with the width on each side of the center of the claim, and the general course of the vein or lode, as near as may be.

Fourth—The date of location.

Fifth—Such a description of the claim by reference to some natural object, or permanent monument, as will identify the claim located.

§ 1426*a*. The locator must define the boundaries of his claim so that they may be readily traced, and in no case shall the claim extend more than fifteen hundred feet along the course of the vein or lode, nor more than three hundred feet on either side thereof, measured from the center line of the vein at the surface.

§ 1426*b*. Within thirty days after the posting of his notice of location upon a lode mining claim, the locator shall record a true copy thereof in the office of the county recorder of the county in which such claim is situated, for which service the county recorder shall receive a fee of one dollar.

§ 1426*c*. The location of a placer claim shall be made in the following manner: By posting thereon, upon a tree, rock in place, stone, post or monument, a notice of location, containing the name of the claim, name of locator or locators, date of location, number of feet or acreage claimed, such a description of the claim by reference to some natural object or permanent monument as will identify the claim located, and by marking the boundaries so that they may be readily traced; *provided*, that where the United States survey has been extended over the land embraced in the location, the claim may be taken by legal subdivisions and no other reference than those of said survey shall be required and the boundaries of a claim so located and described need not be staked or monumented. The description by legal subdivisions shall be deemed the equivalent of marking.

§ 1426*d*. Within thirty days after the posting of the notice of location of a placer claim, the locator shall record a true copy thereof in the office of the county recorder of the county in which such claim is situated, for which service the recorder shall receive a fee of one dollar.

§ 1426*e*. The locator of a tunnel right or location, shall locate his tunnel right or location by posting a notice of location at the face or point of commencement of the tunnel, which must contain:

First—The name of the locator or locators.

Second—The date of the location.

Third—The proposed course or direction of the tunnel.

Fourth—A description of the tunnel, with reference to some natural object or permanent monument as shall identify the claim or tunnel right.

§ 1426*f*. The boundary lines of the tunnel shall be established by stakes or monuments placed along the lines at an interval of not more

than six hundred feet from the face or point of commencement of the tunnel to the terminus of three thousand feet therefrom.

§ 1426*g*. Within thirty days after the posting the notice of location of the tunnel right or location, the locator shall record a true copy thereof, in the office of the county recorder of the county in which such claim is situated, for which service the recorder shall receive a fee of one dollar.

§ 1426*h*. If at any time the locator of any mining claim heretofore or hereafter located, or his assigns, shall apprehend that his original location notice was defective, erroneous, or that the requirements of the law had not been complied with before filing; or in case the original notice was made prior to the passage of this act, and he shall be desirous of securing the benefit of this act, such locator, or his assigns, may file an additional notice, subject to the provisions of this act; *provided*, that such amended location notice does not interfere with the existing rights of others at the time of posting and filing such amended location notice, and no such amended location notice or the record thereof, shall preclude the claimant, or claimants from proving any such title as he or they may have held under previous locations.

§ 1426*i*. Where a locator, or his assigns, has the boundaries and corners of his claim established by a United States deputy mineral survey, or a licensed surveyor of this state, and his claim connected with the corner of the public or minor surveys of an established initial point, and incorporates into the record of the claim, the field notes of such survey, and attaches to and files with such location notice, a certificate of the surveyor, setting forth: First, that said survey was actually made by him, giving the date thereof; second, the name of the claim surveyed and the location thereof; third, that the description incorporated in the declaratory statement is sufficient to identify; such survey and certificate becomes a part of the record, and such record is prima facie evidence of the facts therein contained.

§ 1426*j*. The proprietor of a vein or lode claim or mine, or the owner of a quartz mill or reduction works, or any person qualified by the laws of the United States, may locate not more than five acres of non-mineral land as a mill site. Such location shall be made in the same manner as hereinbefore required for locating placer claims.

§ 1426*k*. The locator of a mill site claim or location shall, within thirty days from the date of his location, record a true copy of his location notice with the county recorder of the county in which such location is situated, for which service the recorder shall receive a fee of one dollar.

§ 1426*l*. The amount of work done or improvements made during each year to hold possession of a mining claim shall be that prescribed by the laws of the United States, to wit: One hundred dollars annually.

§ 1426*m*. Whenever [a] mine owner, company, or corporation shall have performed the labor and made the improvements required by law upon any mining claim, the person in whose behalf such labor was performed or improvements made, or some one in his behalf, shall within thirty days after the time limited for performing such labor or making such improvements make and have recorded by the county recorder, in books kept for that purpose, in the county in which such mining claim is situated, an affidavit setting forth the value of labor or improvements made, the name of the claim, and the name of the owner or claimant of said claim at whose expense the same was made or performed. Such affidavit, or a copy thereof, duly certified by the county recorder, shall be prima facie evidence of the performance of such labor or the making of such improvements, or both.

§ 1426*n*. For recording the affidavit herein required, the county recorder shall receive a fee of fifty cents.

§ 1426*o*. Whenever a co-owner or co-owners of a mining claim shall give to a delinquent co-owner or co-owners the notice in writing or notice by publication provided for in section 2324, Revised Statutes of the United States, an affidavit of the person giving such notice, stating the time, place, manner of service, and by whom and upon whom such service was made, shall be attached to a true copy of such notice, and

such notice and affidavit must be recorded in the office of the county recorder, in books kept for that purpose, in the county in which the claim is situated, within ninety days, after the giving of such notice; for the recording of which said recorder shall receive the same fees as are now allowed by law for recording deeds; or if such notice is given by publication in a newspaper, there shall be attached to a printed copy of such notice an affidavit of the printer or his foreman, or principal clerk of such paper, stating the date of the first, last and each insertion of such notice therein, and where the newspaper was published during that time, and the name of such newspaper. Such affidavit and notice shall be recorded as aforesaid, within one hundred and eighty days after the first publication thereof. The original of such notice and affidavit, or a duly certified copy of the record thereof, shall be prima facie evidence that the delinquent mentioned in section 2324 has failed or refused to contribute his proportion of the expenditure required by that section, and of the service of publication of said notice; *provided*, the writing or affidavit hereinafter provided for is not of record. If such delinquent shall, within the ninety days required by section 2324, aforesaid, contribute to his co-owner or co-owners, his proportion of such expenditures, and also all costs of service of the notice required by this section, whether incurred for publication charges, or otherwise, such co-owner or co-owners shall sign and deliver to the delinquent or delinquents a writing, stating that the delinquent or delinquents by name has within the time required by section 2324 aforesaid, contributed his share for the year ..... upon the ..... mine, and further stating therein the district, county and state wherein the same is situated, and the book and page where the location notice is recorded, if said mine was located under the provisions of this act; such writing shall be recorded in the office of the county recorder of said county, for which he shall receive the same fees as are now allowed by law for recording deeds. If such co-owner or co-owners shall fail to sign and deliver such writing to the delinquent or delinquents within twenty days after such contribution, the co-owner or co-owners so failing as aforesaid shall be liable to the penalty of one hundred dollars, to be recovered by any person for the use of the delinquent or delinquents in any court of competent jurisdiction. If such co-owner or co-owners fail to deliver such writing within said twenty days, the delinquent, with two disinterested persons having personal knowledge of such contribution, may make affidavit setting forth in what manner, the amount of, to whom, and upon what mine, such contribution was made. Such affidavit, or a record thereof, in the office of the county recorder of the county in which such mine is situated, shall be prima facie evidence of such contribution.

§ 1426*p*. The record of any location of a mining claim, mill site or tunnel right, in the office of the county recorder, as herein provided shall be received in evidence, and have the same force and effect in the courts of the state as the original notice.

§ 1426*q*. Copies of the records of all instruments required to be recorded by the provisions of this act, duly certified by the recorder, in whose custody such records are, may be read in evidence, under the same circumstances and rules as are now, or may be hereafter provided by law, for using copies of instruments relating to real estate, duly executed or acknowledged or proved and recorded.

§ 1426*r*. The provisions of this act shall not in any manner be construed as affecting or abolishing any mining district or the rules and regulations thereof within the State of California.

§ 1426*s*. The failure or neglect of any locator of a mining claim to perform development work of the character, in the manner and within the time required by the laws of the United States, shall disqualify such locators from relocating the ground embraced in the original location or mining claim or any part thereof under the mining laws, within three years after the date of his original location and any attempted relocation thereof by any of the original locators shall render such location void.

SEC. 2. All acts and parts of acts in conflict with this act, are hereby repealed.

SEC. 3. This act shall take effect and be in force on and after July 1, 1909.

PROTECTION OF OIL AND GAS STRATA.

CHAPTER 356.

An act to prevent injury to oil, gas or petroleum-bearing strata or formations by the penetration or infiltration of water therein.

[Approved March 20, 1909.]

The people of the State of California, represented in senate and assembly, do enact as follows:

SECTION 1. It shall be the duty of the owner of any well now drilled or that may be drilled in the State of California on lands producing or containing oil, gas or petroleum, to properly case such well or wells, with metal casing in accordance with most approved methods, and to effectually shut off all water overlying or underlying the oil-bearing strata and to effectually prevent any water from penetrating such oil-bearing strata.

SEC. 2. It shall be the duty of the owner of any well referred to in section 1 of this act, before abandoning the same to withdraw the casing therefrom, and to securely fill such well with clay, earth or cement mortar, or other good and sufficient materials, used alone or in suitable combination, and thoroughly pack and tamp the same into such well to a point as far above the upper oil-bearing strata as the commissioner hereinafter provided for may decide shall be necessary, and while withdrawing the casing therefrom to effectually and permanently shut off and exclude all water underlying and overlying said oil-bearing strata, and to the satisfaction of the commissioner, whether any oil-bearing strata has been encountered or not.

SEC. 3. It shall be the duty of the owner of any well referred to in section 1 of this act, to keep a careful and accurate log of the drilling of such well, such log to show the character and depth of the formations passed through or encountered in the drilling of such well, and particularly to show the location and depth of the water-bearing strata, together with the character of the water encountered from time to time, and to show at what point such water was shut off, if at all, and if not to so state in such log, and show the depth at which oil-bearing strata is encountered, the depth and character of the same, and whether all water overlying and underlying such oil-bearing strata was successfully and permanently shut off so as to prevent the percolation or penetration into such oil-bearing strata; said record of well to be kept on file and subject to the inspection of hereinafter mentioned commissioner at any time during business hours.

SEC. 4. The term "owner" as herein used shall mean and include each and every person, persons, partnership, copartnership, association or corporation owning, leasing, managing, operating, drilling or possessing any well mentioned in sections 1 and 2 of this act, either as principal or principals, lessee or lessees of such principal or principals, contractor or contractors, and their and each of their employees. The term "oil-bearing strata" as herein used shall mean and include any bed, seam or stratum of rock or sand or other material which contains, includes, or yields earth oil, rock oil, or petroleum oil or natural gas or either of them.

In order to carry out the provision of section 1 or 2 of this act, upon petition of three or more operating oil companies, within the county, it shall be the duty of the board of supervisors of said county to appoint a commissioner who shall be a practical oil man, whose term of office shall be until December 31st of the year following time of appointment or until his successor is appointed.

The duties of said commissioner shall be to see that the provisions of this act shall be enforced.

The compensation of said commissioner shall he fixed by the board of supervisors and shall be paid out of the general county fund.

Upon the filing of a complaint with said commissioner alleging the violation of any of the provisions of sections 1 or 2 of this act, it shall be the duty of the hereinbefore mentioned commissioner of the county, if so requested by the complainants, to make or cause to be made, a thorough investigation of the well in question, to determine whether or not any of the provisions of this act have been violated and for such purpose he is hereby empowered to appoint all necessary agents and assistants to conduct such examination and such agents and assistants may enter upon the premises where such well is situated and may take charge of such well for the purpose of making such investigations. If the defendant in the action shall be convicted of a violation of any of the provisions of section 1 or 2 of this act, he shall, in addition to the penalties hereafter set forth, pay all reasonable and proper costs incident to the making of such investigations.

Any well drilled and abandoned, in violation of section 1 or 2 of this act is hereby declared a public nuisance.

If any well, under the provision of sections 1 or 2 of this act be declared a public nuisance, it shall be the duty of commissioner of the county in which such well is situated to enter upon the premises, take possession of such well and to abate said nuisance and to take all necessary steps to prevent the percolation or penetration of water into the oil-bearing strata. He shall keep an accurate account of the expense of such work and all expenses so incurred shall be a charge against the owner of such well and a lien upon the same.

Any person violating the provisions of this act shall be guilty of a misdemeanor.

Any owner of any well referred to in section 1 or 2 of this act, who refuses to permit the commissioner to inspect the same or who willfully hinders or delays the commissioner in the performance of his duty is guilty of a misdemeanor.

An "act" to prevent injury to oil, or petroleum-bearing strata, or formations by infiltration or intrusion of water therein, approved March 24, 1903, is hereby repealed.

ACT ESTABLISHING A UNIFORM SYSTEM OF MINE BELL SIGNALS.

CHAPTER LXXIV.

An act to establish a uniform system of mine bell signals, to be used in all the mines operated in the State of California, and for the protection of miners.

The people of the State of California, represented in senate and assembly, do enact as follows:

SECTION 1. Every person, company, corporation, or individual, operating any mine within the State of California—gold, silver, copper, lead, coal, or any other metal or substance—where it is necessary to use signals by means of bell or otherwise, for shafts, inclines, drifts, crosscuts, tunnels, and underground workings, shall, after the passage of this bill, adopt, use, and put in force the following system or code of mine bell signals, as follows:

1 bell, to hoist. (See Rule 2.)
1 bell, to stop if in motion.
2 bells, to lower. (See Rule 2.)
3 bells, man to be hoisted; run slow. (See Rule 2.)
4 bells, start pump if not running, or stop pump if running.
1—3 bells, start or stop air compressor.
5 bells, send down tools. (See Rule 4.)

6 bells, send down timbers. (See Rule 4.)

7 bells, accident; move bucket or cage by verbal orders only.

1 — 4 bells, foreman wanted.

2 — 1 — 1 bells, done hoisting until called.

2 — 1 — 2 bells, done hoisting for the day.

2 — 2 — 2 bells, change buckets from ore to water, or vice versa.

3 — 2 — 1 bells, ready to shoot in the shaft. (See Rule 3.)

Engineer's signal, that he is ready to hoist, is to raise the bucket or cage two feet and lower it again. (See Rule 3.)

Levels shall be designated and inserted in notice hereinafter mentioned. (See Rule 5.)

SEC. 2. For the purpose of enforcing and properly understanding the above code of signals, the following rules are hereby established:

Rule 1—In giving signals make strokes on bell at regular intervals. The bar (—) must take the same time as for one stroke of the bell, and no more. If timber, tools, the foreman, bucket or cage are wanted to stop at any level in the mine, signal by number of strokes on the bell, number of the level first before giving the signal for timber, tools, etc. Time between signals to be double bars (— —). Examples:

6 — — 5 would mean stop at sixth level with tools.

4 — — 1 — 1 — 1 — — 1, would mean stop at fourth level, man on, hoist.

2 — — 1 — 4 would mean stop at second level with foreman.

Rule 2—No person must get off or on the bucket or cage while the same is in motion. When men are to be hoisted give the signal for men. Men *must* then get on bucket or cage, *then* give the signal to hoist. Bell cord must be in reach of man on the bucket or cage at stations.

Rule 3—After signal "Ready to shoot in shaft," engineer must give his signal when he is ready to hoist. Miners must then give the signal of "Men to be hoisted," then "spit fuse," get into the bucket, and give the signal to hoist.

Rule 4—All timbers, tools, etc., "longer than the depth of the bucket," to be hoisted or lowered, must be securely lashed at the upper end to the cable. Miners must know they will ride up or down the shaft without catching on rocks or timbers and be thrown out.

Rule 5—The foreman will see that one printed sheet of these signals and rules for each level and one for the engine-room are attached to a board not less than twelve inches wide by thirty-six inches long, and securely fasten the board up where signals can be easily read at the places above stated.

Rule 6—The above signals and rules must be obeyed. Any violation will be sufficient grounds for discharging the party or parties so doing. No person, company, corporation, or individuals operating any mine within the State of California, shall be responsible for accidents that may happen to men disobeying the above rules and signals. Said notice and rules shall be signed by the person or superintendent having charge of the mine, who shall designate the name of the corporation or the owner of the mine.

SEC. 3. Any person or company failing to carry out any of the provisions of this act shall be responsible for all damages arising to or incurred by any person working in said mine during the time of such failure.

SEC. 4. This act shall take effect immediately.

RELIEF MAP OF

CALIFORNIA

BY

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Department of Geology,
Stanford University.

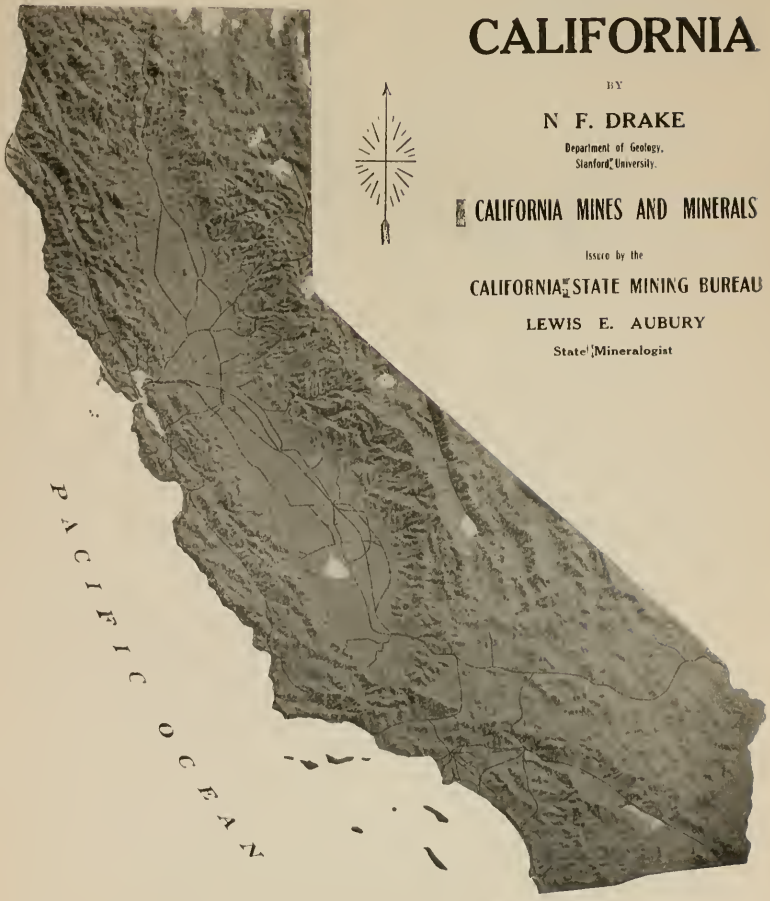
CALIFORNIA MINES AND MINERALS

Issued by the

CALIFORNIA STATE MINING BUREAU

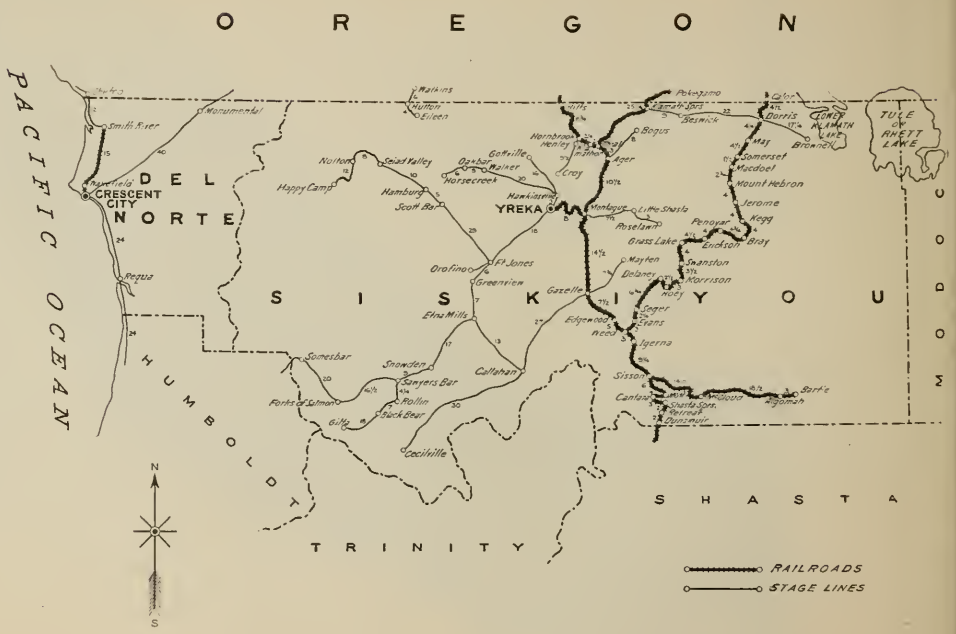
LEWIS E. AUBURY

State Mineralogist



The County Maps.

The county maps in this pamphlet show all towns, post offices, railroads, stage lines carrying passengers, mail and express, and distances between points, forming a useful and handy guide especially to all who wish to leave the railroad and penetrate to the interior of the mining districts. They also show all post routes. These maps have been brought up to date (Jan. 1, 1909,) and must not be reproduced without obtaining permission from the State Mining Bureau.



OREGON
SISKIYOU
MODOC
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LASSEN
PLUMAS
SIERRA
NEVADA
TULE LAKE
GOOSE LAKE
ALTURAS
SUSANVILLE
Tulelake
Klamath Falls
Shasta Retreat
Dorris
Oregon Boundary
Dixie
Bieber
Adin
Canby
Davis Creek
Lake City
Cedarville
Eagleville
Middle Kahtlan Lake
Upper Lake
Lassen
Crystal Lake
Pittville
Dixieville
Grayden Hill
Hall Ranch
Madeline
Herlong
Clay
Termo
Beckwith
Beaver Creek
Meadow Lake
Standish
Litchfield
Wendel
Eagle Lake
Eagle Lake
Johnstonville
Clapperdale
Janesville
Clinton
Spanish Springs
Honey Lake
Wineagle
Doyle
Lassen
Westwood
Chester
Lake Almanor
Prattville
Indian Valley
Genesee
Taylorsville
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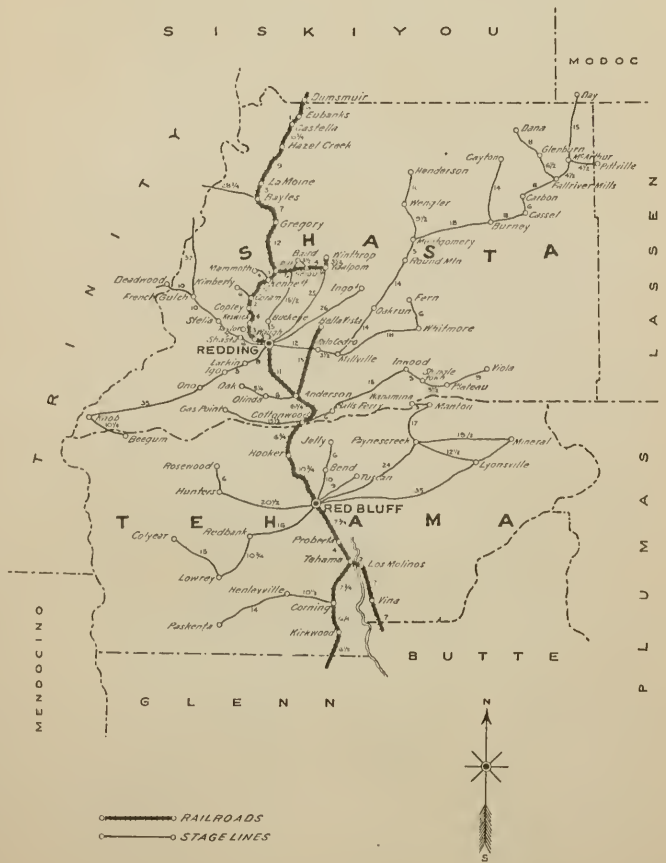
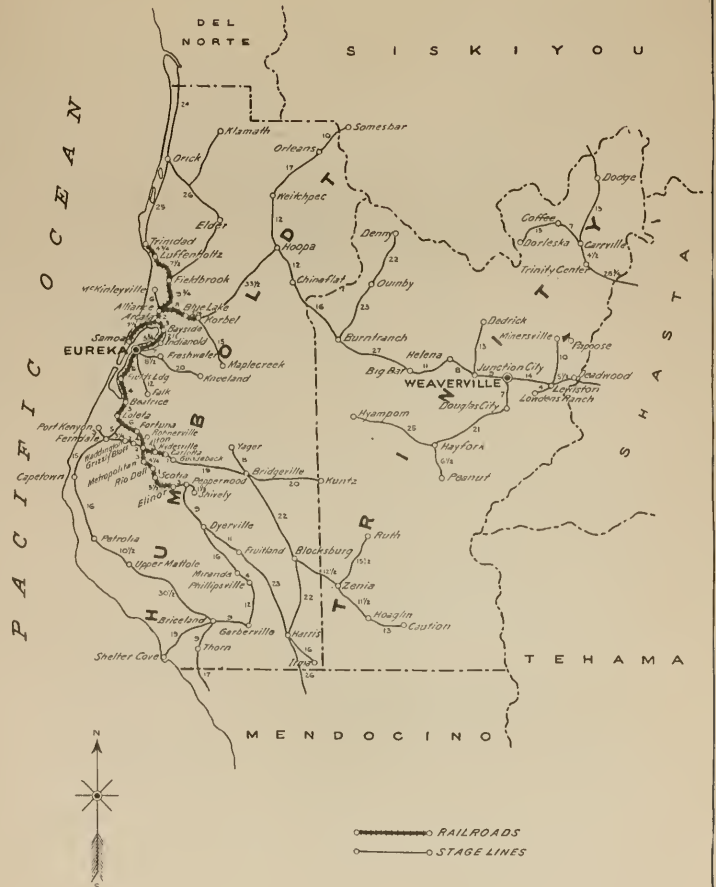
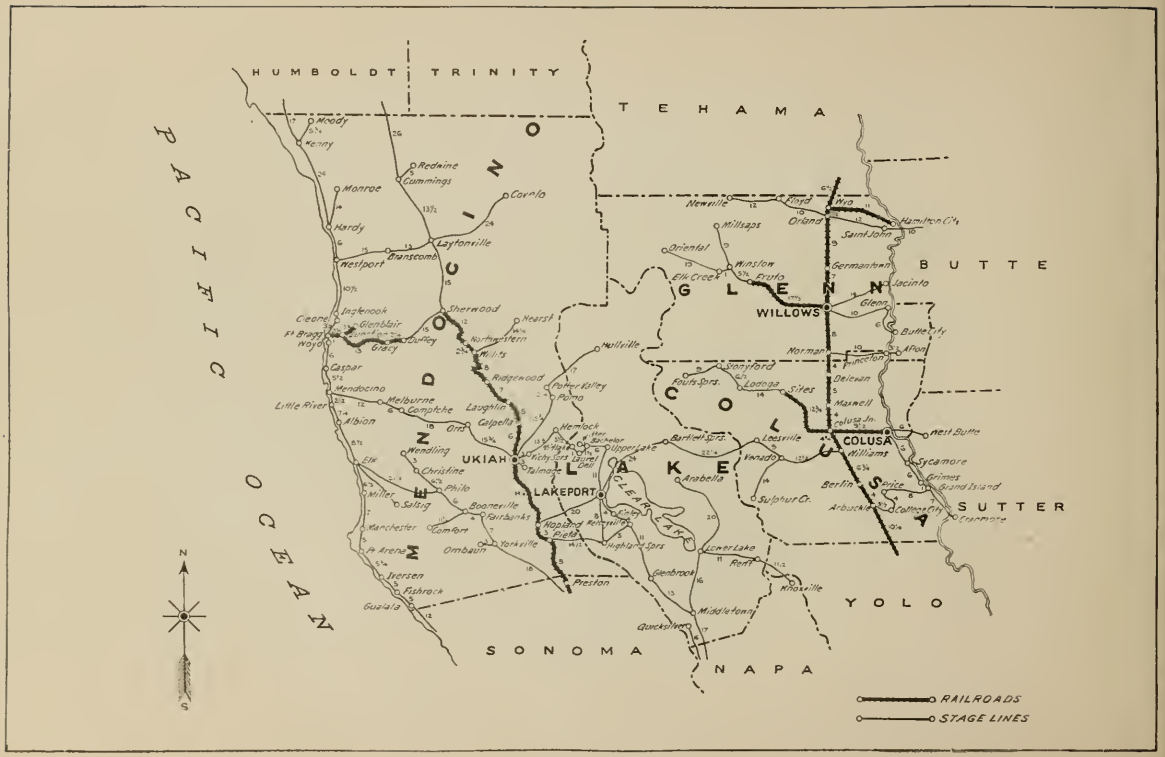
Reno
RAILROADS
STAGE LINES



SHASTA AND TEHAMA COUNTIES.



HUMBOLDT AND TRINITY COUNTIES.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SONOMA
NAPA
LAKEPORT
UKIAH
Williams
Orland
Chico
Oroville
Marysville
Yuba City
Woodland
Vacaville
Fairfield
Vallejo
Petaluma
Santa Rosa
Healdsburg
Cloverdale
Ukiah
Willits
Fort Bragg
Mendocino
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Hopland
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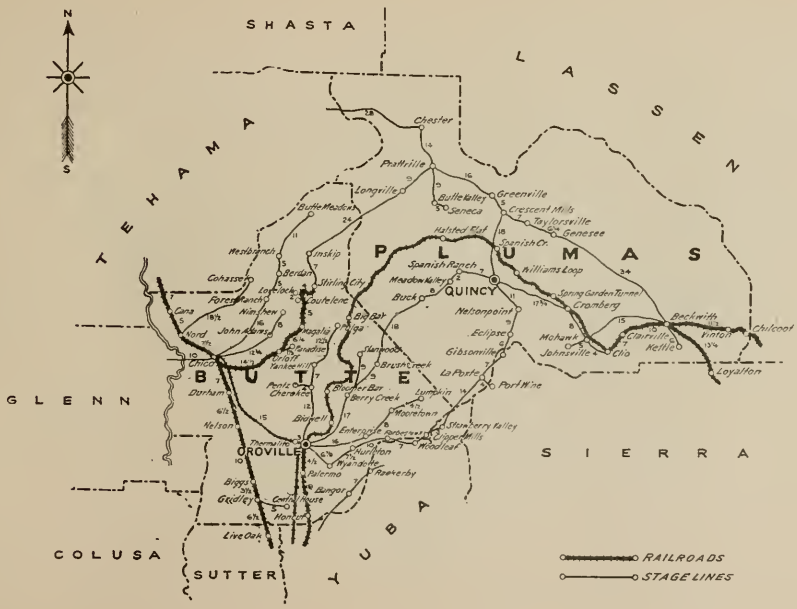
Middletown
Calistoga
St. Helena
Napa
Sonoma
RAILROADS
STAGE LINES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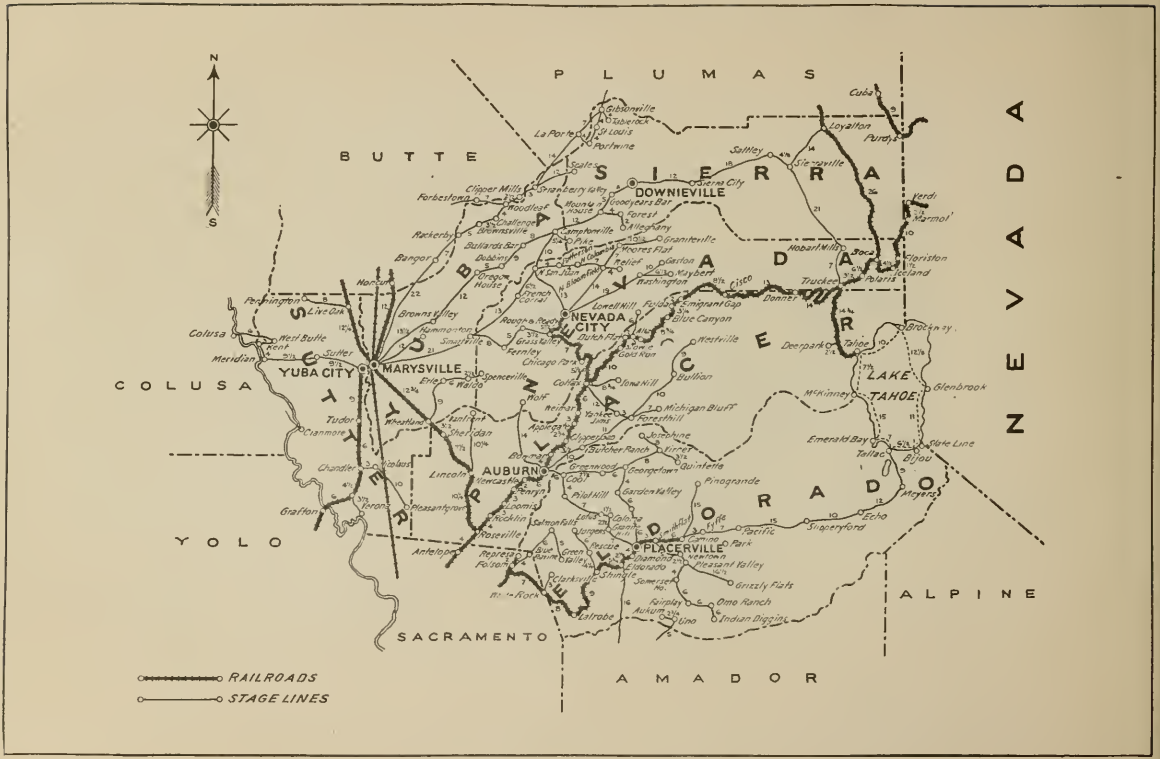
YUBA
SIERRA
Chester
Prattville
Greenville
Longville
Butte Meadows
Butte Valley
Seneca
Crescent Mills
Taylorsville
Genesee
Halsted Flat
Tourish Ck.
Westbranch
Stinskip
Spanish Ranch
Williams Loop
Cohasset
Berdan
Stirling City
Meadow Valley
QUINCY
Sonny Garden Tunnel
Forest Ranch
Loyalton
Cramberry
Cana
Nimshew
Nelsonpoint
Beckwith
Chilcoot
Nord
John Adams
Magalia
Bidwell Park
Echipse
Mohawk
Clairville
Vinfall
Chico
Kunchute
Stanwood
Gibsonville
Johnsville
Clio
Kettle
Loyalton
Durham
Pentz
Cherokee
Berry Creek
La Porte
Port Wine
Nelson
Enterprise
Strawberry Valley
Moorland
Thermalito
OROVILLE
Hamilton
Moodlaxe
Ryandale
Palermo
Rackerby
Biggs
Gridley
Bangor
Central House
Marion
Live Oak
RAILROADS
STAGE LINES


N
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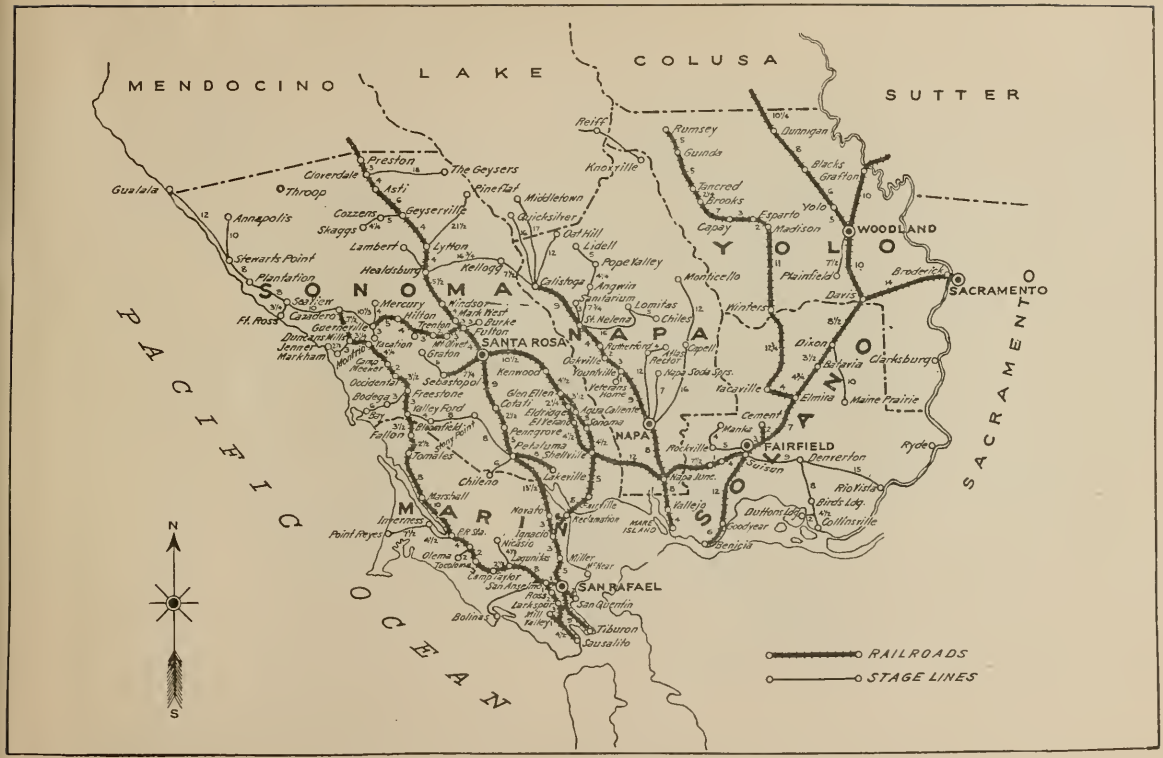
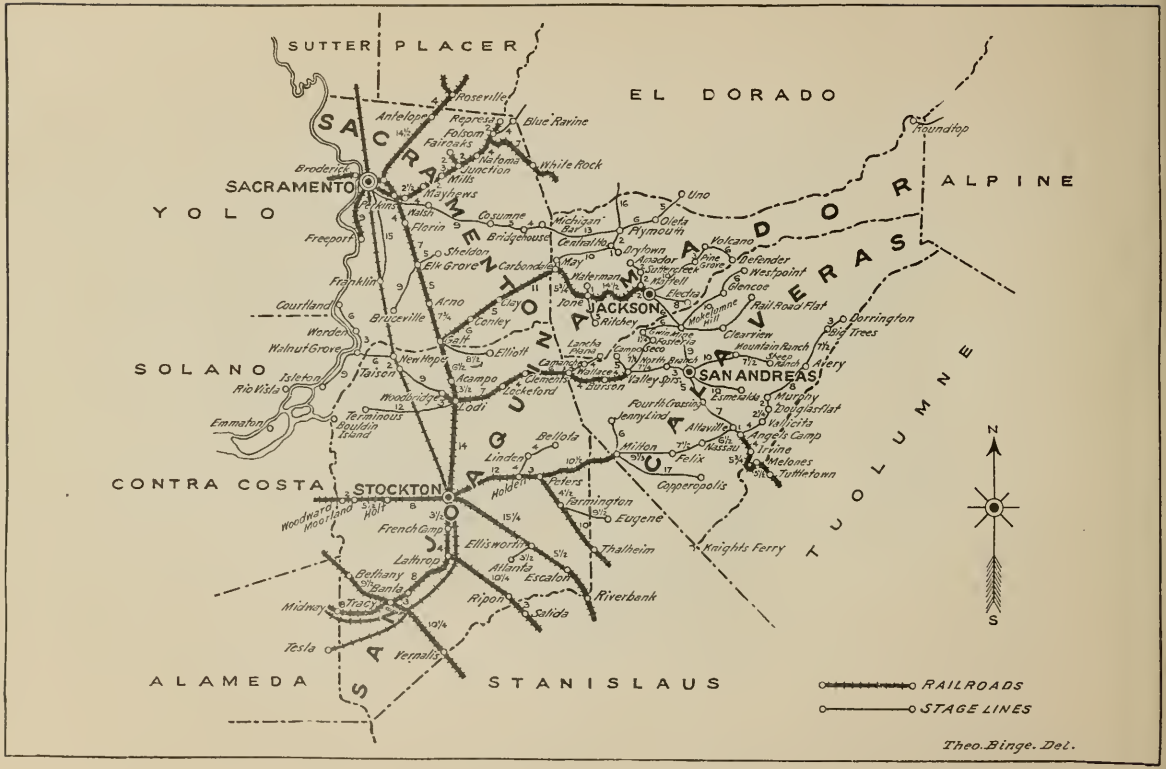
PLUMAS
BUTTE
SIERRA
NEVADA
DOWNIEVILLE
NEVADA CITY
YUBA CITY
MARYSVILLE
COLUSA
AUBURN
PLACERVILLE
LAKE TAHOE
YOLO
SACRAMENTO
AMADOR
ALPINE
EL DORADO
SUTTER
RAILROADS
STAGE LINES

SONOMA, MARIN. NAPA, YOLO, AND SOLANO COUNTIES.



SACRAMENTO, SAN JOAQUIN, AMADOR, AND CALAVERAS COUNTIES.


SUTTER
PLACER
EL DORADO
ALPINE
YOLO
SOLANO
CONTRA COSTA
ALAMEDA
STANISLAUS
TUOLUMNE
SACRAMENTO
STOCKTON
JACKSON
SAN ANDREAS
Roseville
Antelope
Folsom
Fairoaks
Natoma
Junction
Mills
Mayhews
Perkins
Halsey
Florin
Freeport
Sheldon
Elk Grove
Franklin
Courtland
Bruceville
Arno
Conley
Walnut Grove
Warden
Isleton
Rio Vista
New Hope
Taisen
Acampo
Woodbridge
Lodi
Emmaton
Terminous
Stockton Island
Bellota
Linden
Peters
Holdell
Farmington
Woodward Island
Holt
French Camp
Lathrop
Ellis
Atlanta
Escalon
Bethany
Banta
Tracy
Midway
Tesla
Vernalis
Ripon
Salida
Riverbank
Knights Ferry
Thalheim
Eugene
Copperopolis
Milton
Felix
Altaville
Angels Camp
Irvine
Melones
Tuttletown
Jenny Lind
Fourth Crossing
Douglas Flat
Kallicita
Murphy
Sand Ranch
Mountain Ranch
Vallecito
Valley Springs
Burson
Lancha Plana
Campo Seco
North Branch
Wallace
Clements
Lockeford
Camanche
Ione
Sutter Creek
Amador
Drytown
Central Ho
Plymouth
Michigan Bar
Oleta
Uno
Volcano
Defender
West Point
Glencoe
Electra
Mokelumne Hill
Railroad Flat
Clearrion
Ritchey
Lancha Plana
Waterman
May
Carbondale
Bridgehouse
Cosumne
Michigan Bar
Dorrington
Big Trees
Avery
Murphys
Douglas Flat
Kallicita
Angels Camp
Irvine
Melones
Tuttletown
Jenny Lind
Fourth Crossing
Valley Springs
Burson
Campo Seco
North Branch
Wallace
Clements
Lockeford
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Sutter Creek
Amador
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Plymouth
Michigan Bar
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West Point
Glencoe
Electra
Mokelumne Hill
Railroad Flat
Clearrion
Ritchey
Lancha Plana
Waterman
May
Carbondale
Bridgehouse
Cosumne
Roundtop
Blue Ravine
White Rock
Broderick
Mayhews
Perkins
Halsey
Florin
Freeport
Sheldon
Elk Grove
Franklin
Courtland
Bruceville
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Walnut Grove
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Eugene
Copperopolis
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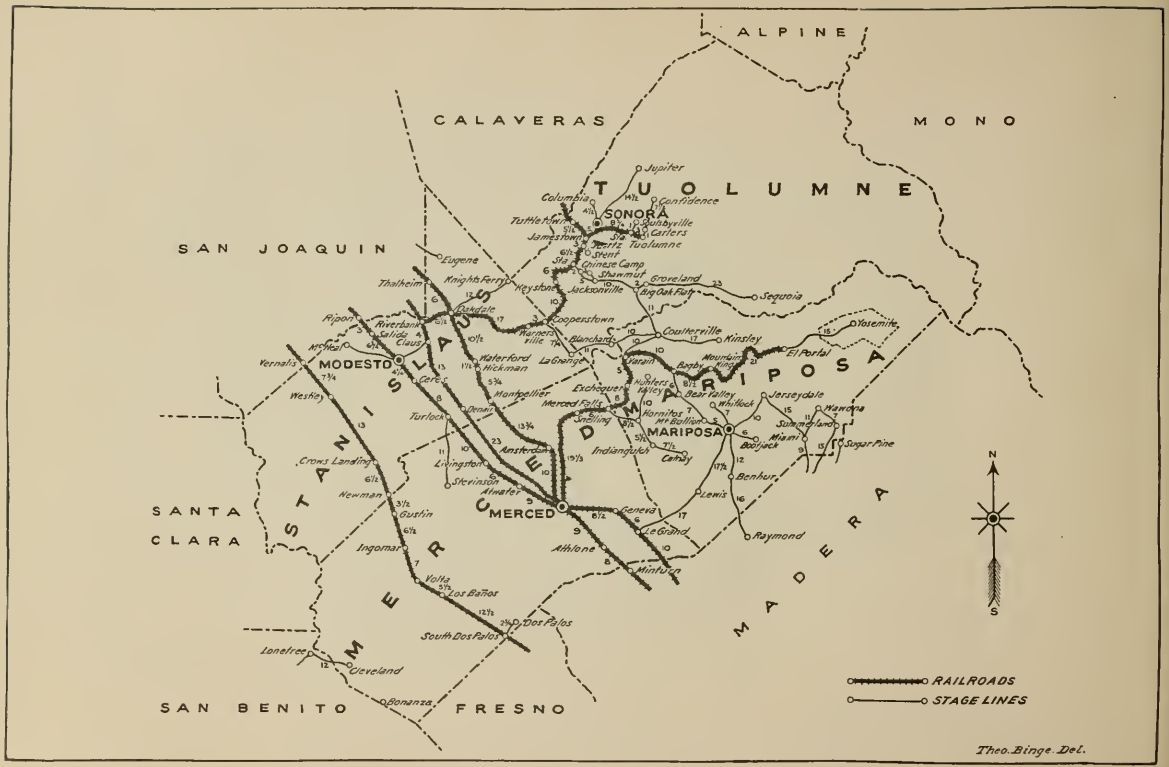
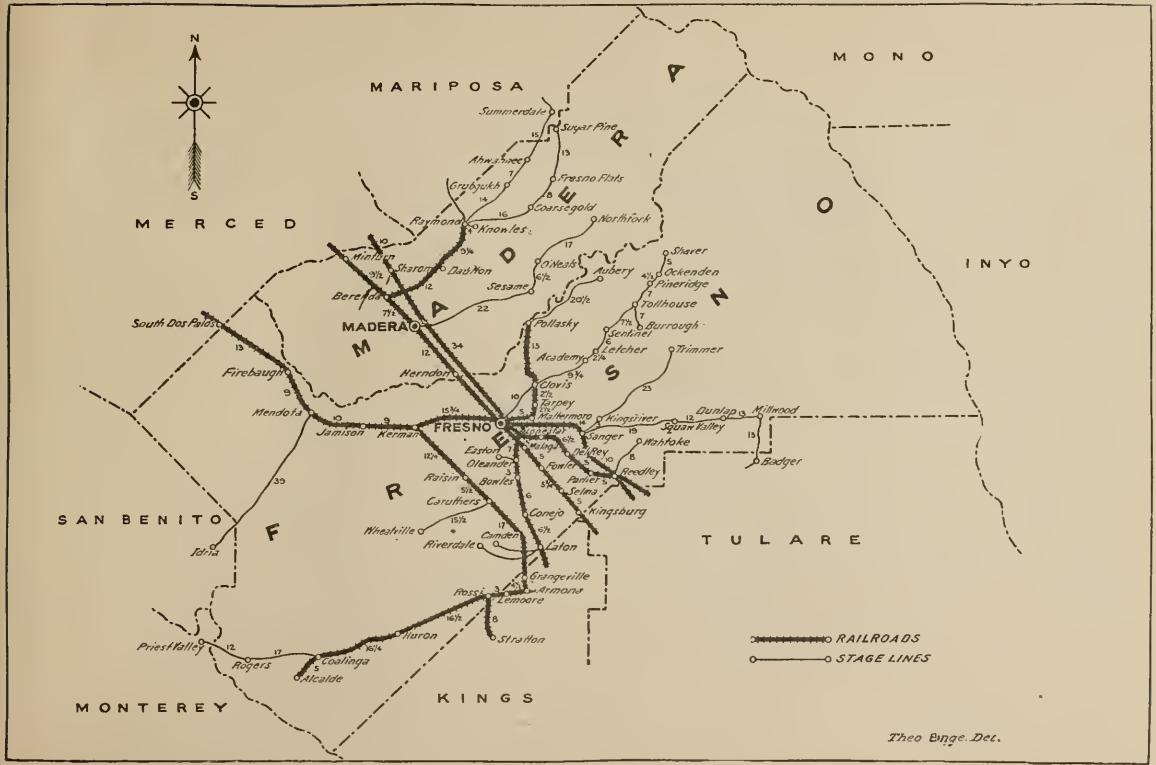
Altaville
Angels Camp
Irvine
Melones
Tuttletown
Jenny Lind
Fourth Crossing
Douglas Flat
Kallicita
Murphy
Sand Ranch
Mountain Ranch
Vallecito
Valley Springs
Burson
Lancha Plana

SAN FRANCISCO, SAN MATEO, CONTRA COSTA, ALAMEDA, SANTA CLARA, AND SANTA CRUZ COUNTIES.

STANISLAUS, MERCED, TUOLUMNE, AND MARIPOSA COUNTIES.




N
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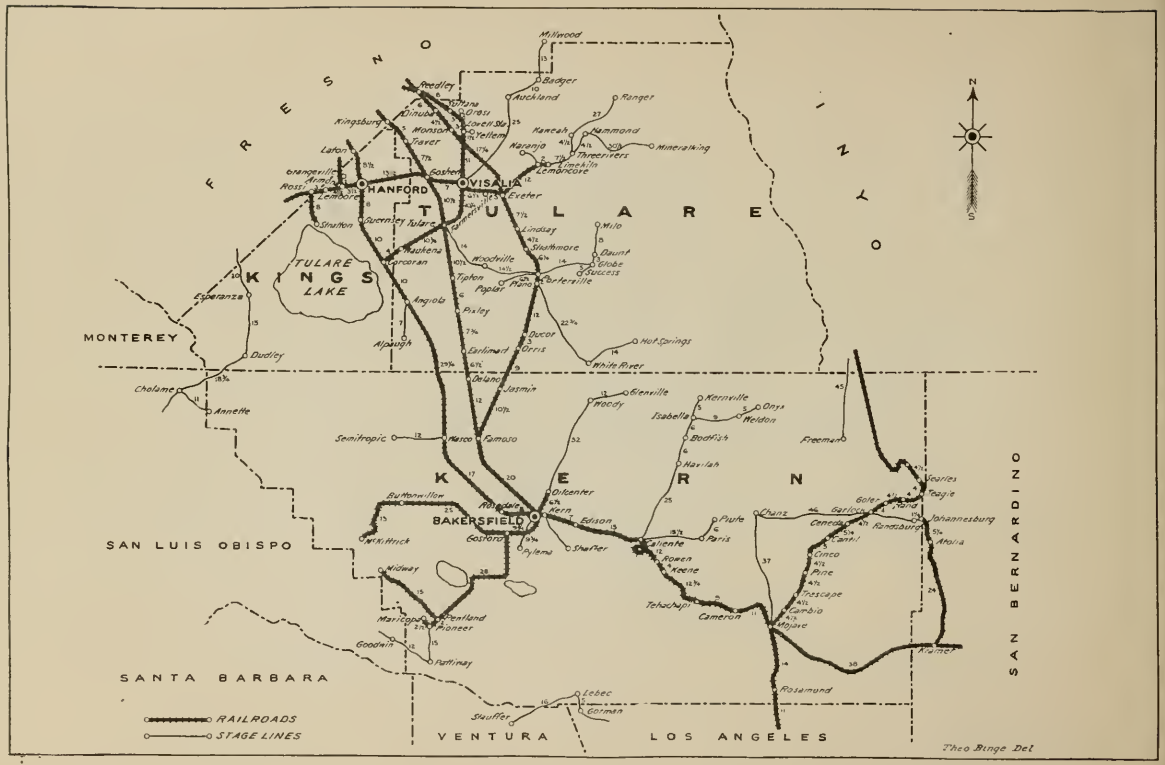
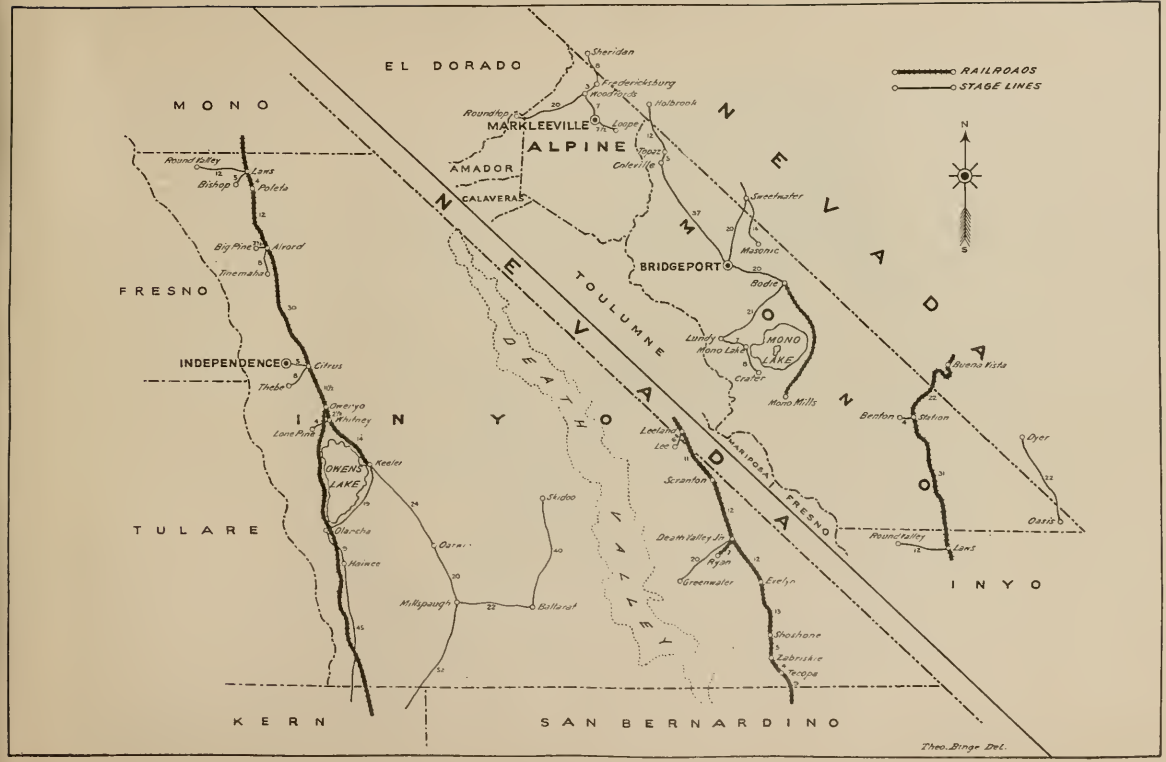
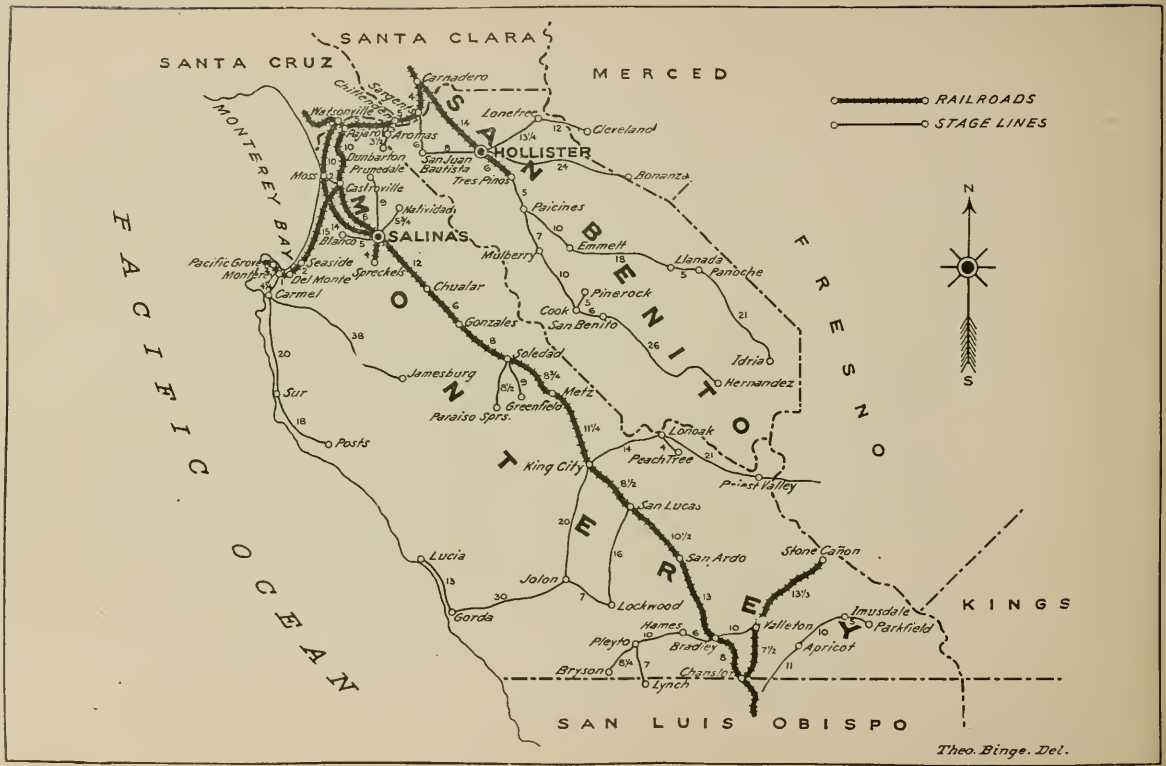
MARIPOSA
MONO
MERCED
INYO
TULARE
SAN BENITO
MONTEREY
KINGS
SIERRA
MADERA
FRESNO
Summerdale
Sugar Pine
Ahwahnee
Fresno Flats
Grubgulch
Coarsegold
Raymond
Knowles
Northfork
Minkler
Sharon
Dash Non
O'Neals
Aubery
Sharer
Ockenden
Pineridge
Tollhouse
Sesame
Berenda
South Dos Palos
Pollasky
Burrough
Sentinel
Fletcher
Trimmer
Academy
Firebaugh
Herndon
Clovis
Mendota
Jamison
Kerman
Fowler
Kingsriver
Dunlap
Millwood
Squaw Valley
Sanger
Wahtoke
Badger
Easton
Oleander
Del Rey
Reedley
Raisin
Bowles
Parlier
Selma
Kingsburg
Carruthers
Conejo
Wheatville
Riverdale
Camden
Laton
Idria
Grangeville
Armona
Rossi
Lemoore
Stratton
Huron
Priest Valley
Rogers
Coalinga
Alcalde
RAILROADS
STAGE LINES
Theo Binge. Del.

KINGS, TULARE, AND KERN COUNTIES.



ALPINE, MONO, AND INYO COUNTIES.




SANTA CLARA
SANTA CRUZ
MERCED
FRESNO
KINGS
SAN LUIS OBISPO
PACIFIC OCEAN
MONTEREY BAY
SAN BENITO
MONTEREY
RAILROADS
STAGE LINES
N
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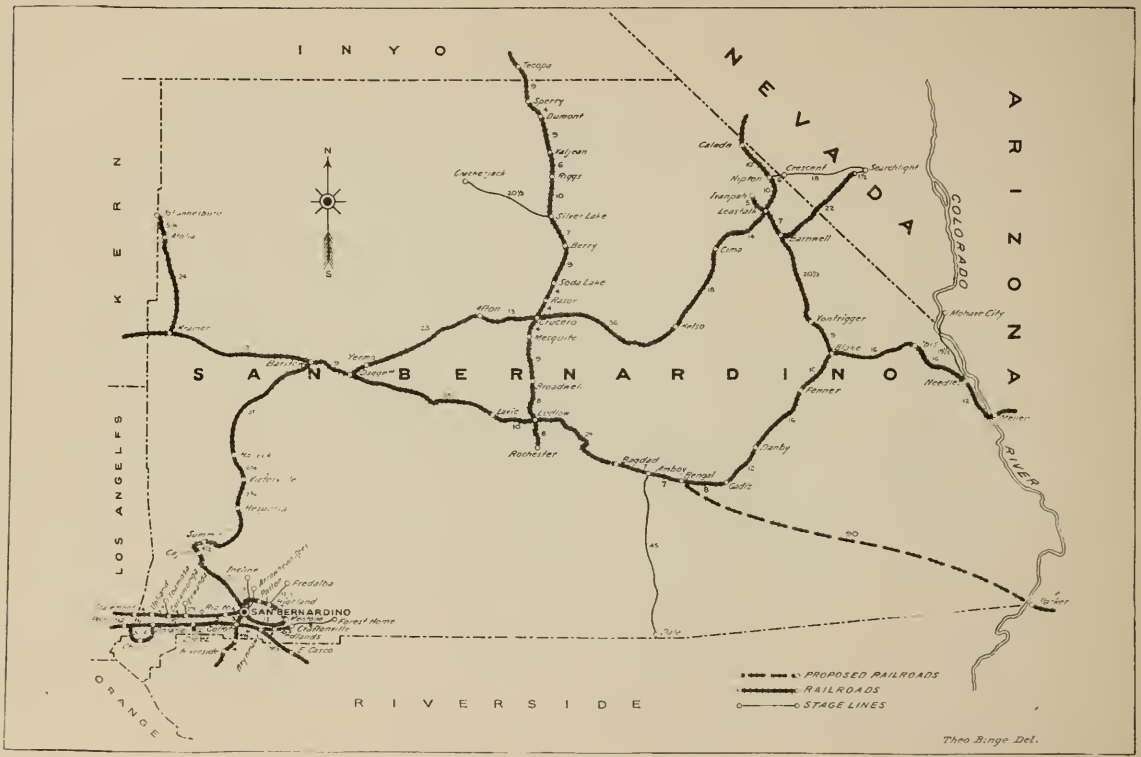
Carnadero
Chittenden
Sargent
Watsonville Jct.
Watsonville
Pajaro
Aromas
Lonetree
Cloverland
HOLLISTER
San Juan Bautista
Tres Pinos
Bonanza
Dunbarton
Prunedale
Moss
Castroville
Natividad
Paicines
SALINAS
Mulberry
Emmett
Llanada
Panoche
Pacific Grove
Monterey
Seaside
Del Monte
Carmel
Spreckels
Chualar
Pinerock
Cook
San Benito
Gonzales
Soledad
Idria
Hernandez
Jamesburg
Metz
Greenfield
Paraiso Sprs.
Sur
Posts
Lonoak
King City
Peach Tree
Priest Valley
San Lucas
Lucia
Jolon
San Ardo
Stone Cañon
Gorda
Lockwood
Imusdale
Parkfield
Hames
Valleton
Pleyto
Bradley
Apricot
Bryson
Chanslor
Lynch
Theo. Binge. Del.

MONTEREY
PACIFIC OCEAN
SAN LUIS OBISPO
KERN
SANTA BARBARA
N
S
Lynch
Chanslor
San Miguel
Estrella
Cholame
Gibbons
Bern
Annette
San Simeon
Adelaide
Union
Shandon
Klau
Paso Robles
Cambria
Linne
Templeton
Creston
Cayucos
Dove
Santa Margarita
La Panza
Simmler
Morro
Serrano
Pozo
SAN LUIS OBISPO
Avenal
Musick
Arila
Edna
Port San Luis
Oilpot
Arroyo Grande
Huasna
Pismo
Oceano
Berros
Hipomo
Santa Maria River
Goodwin
Guadalupe
Santa Maria
RAILROADS
STAGE LINES
Theo. Binge. Del.

SAN LUIS OBISPO
KERN
LOS ANGELES
SANTA BARBARA
VENTURA
PACIFIC OCEAN
N
S
Santa Maria River
Nipomo
Guadalupe
Santa Maria
Betteravia
Orcutt
Casmalia
Wasioja
Pallmay
Quatal
Lebec
Gorman
Stauffer
Sisquoc
Los Alamos
Careago
Los Olivos
Ballard
Santa Ynez
Surf
Lompoc
Sudden
Concepcion
Las Cruces
Gaviota
Naples
Goleta
Montecito
Summerland
Serena
Carpinteria
Punta Gorda
Ozena
Lyon Spgs.
Matilija
Nordhoff
Saspe
Fillmore
Piru
Camulos
Santa Paula
Penrose
Moorpark
Simi
Santa Susana
Chatsworth
Saticoy
Montalvo
Somis
Oxnard
Camarillo
Newbury Park
Hueneme
RAILROADS
STAGE LINES
Theo. Binge. Del.

KERN
SAN BERNARDINO
RIVERSIDE
SAN DIEGO
VENTURA
LOS ANGELES
ORANGE
LOS ANGELES
SANTA ANA
PACIFIC OCEAN
SANTA CATALINA
RAILROADS
STAGE LINES
Theo. Bunge, Del.


INYO
KERN
LOS ANGELES
ORANGE
RIVERSIDE
SAN BERNARDINO
NEVADA
ARIZONA
COLORADO
RIVER
Tecopa
Sperry
Dumont
Jayson
Riggs
Silver Lake
Berry
Soda Lake
Azusor
Afton
Cuddeback
Cuddeback
Halloran Springs
Atolia
Kramer
Victorville
Yermo
Daggett
Barstow
Calico
Broadwell
Lavic
Ludlow
Rochester
Siberia
Amboy
Bengal
Cadiz
Danby
Fenner
Needles
Mohave City
Yantrigger
Essex
Cima
Kelso
Valley Wells
Nipton
Crescent
Searchlight
Caleda
Ivanpah
Leastake
Summit
Cajon
Devore
Colton
Redlands
Highland
Fredalba
Arrowhead Springs
Forest Home
Chatsworth
Casco
Ontario
Pomona
Riverside
Indio
Salton
Yuma
PROPOSED RAILROADS
RAILROADS
STAGE LINES
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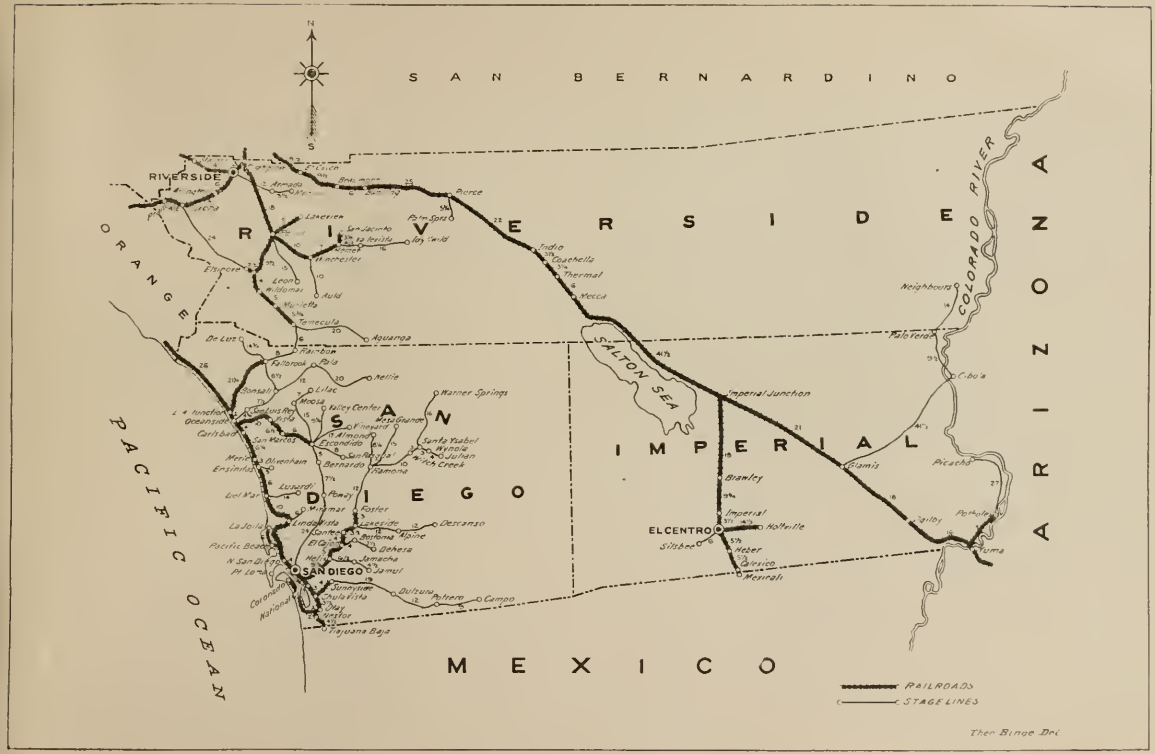
RIVERSIDE, SAN DIEGO, AND IMPERIAL COUNTIES.



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Map of Shasta Co. Showing Boundaries Nat. Forests	.20	.02
Map of Sierra Co. Showing Boundaries Nat. Forests	.20	.02
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